Chao Yu

List of Publications by Citations

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	Multibeam Antenna Technologies for 5G Wireless Communications. *IEEE Transactions on Antennas and Propagation*, **2017**, 65, 6231-6249	4.9	396
87	Band-Limited Volterra Series-Based Digital Predistortion for Wideband RF Power Amplifiers. *IEEE Transactions on Microwave Theory and Techniques*, **2012**, 60, 4198-4208	4.1	153
86	Behavioral Modeling and Predistortion of Power Amplifiers Under Sparsity Hypothesis. *IEEE Transactions on Microwave Theory and Techniques*, **2015**, 63, 745-753	4.1	82
85	The Role of Millimeter-Wave Technologies in 5G/6G Wireless Communications. *IEEE Journal of Microwaves*, **2021**, 1, 101-122		79
84	Ultrawideband Printed Log-Periodic Dipole Antenna With Multiple Notched Bands. *IEEE Transactions on Antennas and Propagation*, **2011**, 59, 725-732	4.9	62
83	Improved Three-Stage Doherty Amplifier Design With Impedance Compensation in Load Combiner for Broadband Applications. *IEEE Transactions on Microwave Theory and Techniques*, **2019**, 67, 778-786	4.1	45
82	Support Vector Regression-Based Behavioral Modeling Technique for RF Power Transistors. *IEEE Microwave and Wireless Components Letters*, **2018**, 28, 428-430	2.6	43
81	Full-Angle Digital Predistortion of 5G Millimeter-Wave Massive MIMO Transmitters. *IEEE Transactions on Microwave Theory and Techniques*, **2019**, 67, 2847-2860	4.1	39
80	A Digital Multibeam Array With Wide Scanning Angle and Enhanced Beam Gain for Millimeter-Wave Massive MIMO Applications. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 5827-5837	4.9	37
79	Digital Predistortion of 5G Massive MIMO Wireless Transmitters Based on Indirect Identification of Power Amplifier Behavior With OTA Tests. *IEEE Transactions on Microwave Theory and Techniques*, **2020**, 68, 316-328	4.1	32
78	Power Adaptive Digital Predistortion for Wideband RF Power Amplifiers With Dynamic Power Transmission. *IEEE Transactions on Microwave Theory and Techniques*, **2015**, 63, 3595-3607	4.1	29
77	. *IEEE Transactions on Microwave Theory and Techniques*, **2019**, 67, 533-543	4.1	26
76	A Single Envelope Modulator-Based Envelope-Tracking Structure for Multiple-Input and Multiple-Output Wireless Transmitters. *IEEE Transactions on Microwave Theory and Techniques*, **2012**, 60, 3317-3327	4.1	19
75	Single-Receiver Over-the-Air Digital Predistortion for Massive MIMO Transmitters With Antenna Crosstalk. *IEEE Transactions on Microwave Theory and Techniques*, **2020**, 68, 301-315	4.1	17
74	Compact Millimeter-Wave Endfire Dual-Polarized Antenna Array for Low-Cost Multibeam Applications. *IEEE Antennas and Wireless Propagation Letters*, **2020**, 19, 2526-2530	3.8	17
73	SIW Cavity-Fed Filtennas for 5G Millimeter-Wave Applications. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 5269-5277	4.9	17
72	An Orthogonal Hybrid Analog–Digital Multibeam Antenna Array for Millimeter-Wave Massive MIMO Systems. *IEEE Transactions on Antennas and Propagation*, **2021**, 69, 1393-1403	4.9	16

71	Digital Compensation for Transmitter Leakage in Non-Contiguous Carrier Aggregation Applications With FPGA Implementation. *IEEE Transactions on Microwave Theory and Techniques*, **2015**, 63, 4306-4318	4.1	15
70	. *IEEE Transactions on Antennas and Propagation*, **2018**, 66, 7021-7031	4.9	15
69	A N260 Band 64 Channel Millimeter Wave Full-Digital Multi-Beam Array for 5G Massive MIMO Applications. *IEEE Access*, **2020**, 8, 47640-47653	3.5	14
68	High-performance digital predistortion test platform development for wideband RF power amplifiers. *International Journal of Microwave and Wireless Technologies*, **2013**, 5, 149-162	0.8	14
67	A Metasurface-Based Multilayer Wideband Circularly Polarized Patch Antenna Array With a Parallel Feeding Network for Q-Band. *IEEE Antennas and Wireless Propagation Letters*, **2019**, 18, 1208-1212	3.8	13
66	Bayesian Inference-Based Behavioral Modeling Technique for GaN HEMTs. *IEEE Transactions on Microwave Theory and Techniques*, **2019**, 67, 2291-2301	4.1	13
65	Single-Model Single-Feedback Digital Predistortion for Concurrent Multi-Band Wireless Transmitters. *IEEE Transactions on Microwave Theory and Techniques*, **2015**, 63, 2211-2224	4.1	13
64	Single feedback loop-based digital predistortion for linearizing concurrent multi-band transmitters **2014**,		11
63	Bandwidth-constrained least squares-based model extraction for band-limited digital predistortion of RF power amplifiers **2012**,		11
62	Output-Controllable Partial Inverse Digital Predistortion for RF Power Amplifiers. *IEEE Transactions on Microwave Theory and Techniques*, **2014**, 62, 2499-2510	4.1	10
61	Linear-Decomposition Digital Predistortion of Power Amplifiers for 5G Ultrabroadband Applications. *IEEE Transactions on Microwave Theory and Techniques*, **2020**, 68, 2833-2844	4.1	9
60	Multibeam Digital Predistortion for Millimeter-Wave Analog Beamforming Transmitters. *IEEE Microwave and Wireless Components Letters*, **2020**, 30, 209-212	2.6	9
59	Compact SIW Fed Dual-Port Single Element Annular Slot MIMO Antenna for 5G mmWave Applications. *IEEE Access*, **2021**, 9, 91995-92002	3.5	9
58	Design and Implementation of a Full-Digital Beamforming Array With Nonreciprocal Tx/Rx Beam Patterns. *IEEE Antennas and Wireless Propagation Letters*, **2020**, 19, 1978-1982	3.8	8
57	Digital predistortion of phased array transmitters with multi-channel time delay **2018**,		8
56	Low-Profile, Broadband, Dual-Linearly Polarized, and Wide-Angle Millimeter-Wave Antenna Arrays for Ka-Band 5G Applications. *IEEE Antennas and Wireless Propagation Letters*, **2021**, 1-1	3.8	8
55	In-Band Digital Predistortion for Concurrent Dual-Broadband Phased Array Transmitters. *IEEE Microwave and Wireless Components Letters*, **2019**, 29, 294-296	2.6	7
54	A Band-Limited Canonical Piecewise-Linear Function-Based Behavioral Model for Wideband Power Amplifiers. *IEEE Microwave and Wireless Components Letters*, **2017**, 27, 1022-1024	2.6	7

53	Data-Clustering-Assisted Digital Predistortion for 5G Millimeter-Wave Beamforming Transmitters With Multiple Dynamic Configurations. *IEEE Transactions on Microwave Theory and Techniques*, **2021**, 69, 1805-1816	4.1	7
52	Digital Predistortion of Ultra-Broadband mmWave Power Amplifiers with Limited Tx/Feedback Loop/Baseband Bandwidth. *Wireless Communications and Mobile Computing*, **2018**, 2018, 1-11	1.9	7
51	Compact and Low-Phase-Noise Oscillator Employing Multilayer Sixteenth-Mode Substrate-Integrated Waveguide Filter for 5G Applications. *IEEE Transactions on Components, Packaging and Manufacturing Technology*, **2019**, 9, 1863-1871	1.7	6
50	Analog Assisted Multichannel Digital Postcorrection for Time-Interleaved ADCs. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2016**, 63, 773-777	3.5	5
49	A band-limited 2-D digital predistorter for concurrent dual-band RF transmitters **2014**,		5
48	Over-the-air Behavioral Modeling of Millimeter Wave Beamforming Transmitters with Concurrent Dynamic Configurations Utilizing Heterogenous Neural Network **2020**,		4
47	A Combined Broadband Model for GaN HEMTs in Admittance Domain Based on Canonical Piecewise Linear Functions. *IEEE Transactions on Microwave Theory and Techniques*, **2020**, 68, 5042-5054	4.1	4
46	Near-band digital predistortion for wideband power amplifiers with mmWave non-contiguous carrier aggregation. *Electronics Letters*, **2017**, 53, 1366-1368	1.1	4
45	A 2-D-Canonical Piecewise Linear Function-Based Behavioral Model for Concurrent Dual-Band Power Amplifiers. *IEEE Microwave and Wireless Components Letters*, **2018**, 28, 1050-1052	2.6	4
44	A Dual-Input Canonical Piecewise-Linear Function-Based Model for Digital Predistortion of Multi-Antenna Transmitters **2018**,		4
43	An Overview of China Millimeter-Wave Multiple Gigabit Wireless Local Area Network System. *IEICE Transactions on Communications*, **2018**, E101.B, 262-276	0.5	4
42	Support vector regression-based dynamic behavioral modeling for RF power amplifiers **2018**,		3
41	A Wideband Circularly Polarized Magneto-Electric Dipole Antenna Array for Millimeter-Wave Applications. *IEEE Transactions on Antennas and Propagation*, **2021**, 1-1	4.9	3
40	Design Methodology Using Single Resonate Block for Harmonic Impedance Matching in GaN MMIC Doherty Amplifier. *IEEE Microwave and Wireless Components Letters*, **2021**, 31, 397-400	2.6	3
39	A postmatching concurrent dual-band Doherty power amplifier with enhanced bandwidth. *International Journal of RF and Microwave Computer-Aided Engineering*, **2018**, 28, e21514	1.5	3
38	High-Precision Joint In-Band/Out-of-Band Distortion Compensation Scheme for Wideband RF Power Amplifier Linearization. *IEEE Microwave and Wireless Components Letters*, **2018**, 28, 1044-1046	2.6	3
37	Linearization Angle Widened Digital Predistortion for 5G MIMO Beamforming Transmitters. *IEEE Transactions on Microwave Theory and Techniques*, **2021**, 1-1	4.1	3
36	A 2-D Simplified Memory Polynomial Model for Concurrent Dual-Band Power Amplifiers. *IEEE Microwave and Wireless Components Letters*, **2020**, 30, 761-763	2.6	2

35	Self-Sensing Digital Predistortion of RF Power Amplifiers for 6G Intelligent Radio. *IEEE Microwave and Wireless Components Letters*, **2022**, 1-4	2.6	2
34	OTA-Based Data Acquisition and Signal Separation for Digital Predistortion of Multi-User MIMO Transmitters in 5G **2020**,		2
33	Pattern Sensing Based Digital Predistortion of RF Power Amplifiers under Dynamical Signal Transmission **2019**,		2
32	A wideband dual-polarized magneto-electric dipole antenna for millimeter wave applications. *Microwave and Optical Technology Letters*, **2021**, 63, 1452-1457	1.2	2
31	Directed Graph Navigated Digital Predistortion of mmWave Power Amplifiers for 6G Hopping Applications. *IEEE Microwave and Wireless Components Letters*, **2021**, 1-1	2.6	2
30	Pattern Recognition of RF Power Amplifier Behaviors with Multilayer Perceptron **2018**,		2
29	A Doherty Power Amplifier with Large Back-Off Power Range Using Integrated Enhancing Reactance. *Wireless Communications and Mobile Computing*, **2018**, 2018, 1-8	1.9	2
28	Digital Predistortion of Millimeter-Wave Multi-beam Transmitters with Digital Beam-forming Network **2019**,		1
27	Design and Implementation of a Wideband Antenna Subarray for Phased-Array Applications. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 6059-6068	4.9	1
26	Envelope Preformulation Digital Predistortion for Concurrent Dual-Band Power Amplifiers with Improved Performance and Stability. *IEEE Microwave and Wireless Components Letters*, **2018**, 28, 449-451	2.6	1
25	A reconfigurable in-band digital predistortion technique for mmWave power amplifiers excited by a signal with 640 MHz modulation bandwidth **2017**,		1
24	A band-limited CPWL-based memory polynomial model for digital predistortion **2017**,		1
23	A new extraction method of nonlinear behavioral model for RF power transistor **2015**,		1
22	Frequency component controllable digital predistortion of RF power amplifiers **2014**,		1
21	Band-limited Volterra series-based behavioral modeling of RF power amplifiers **2012**,		1
20	Frequency notched wideband printed directional antennas **2010**,		1
19	Digital Predistortion of 5G Multiuser MIMO Transmitters Using Low-Dimensional Feature-Based Model Generation. *IEEE Transactions on Microwave Theory and Techniques*, **2021**, 1-1	4.1	1
18	Polynomial-Assisted Neural Network Behavioral Model of Wideband Radio Frequency Power Amplifiers for 5G New Radio **2020**,		1

17	Highly Isolated Compact Tri-Band MIMO Antenna with Trapezoidal Defected Ground Plane for 5G Communication Devices **2020**,		1
16	Modified load-modulation network with two □type high-pass equivalent ⁄4 lines for wideband compact GaN MMIC Doherty power amplifier design. *Electronics Letters*, **2021**, 57, 639-641	1.1	1
15	The Threshold Optimization of the Canonical Piecewise Linear Function-Based Model With a Modified Quadratic SPSA. *IEEE Microwave and Wireless Components Letters*, **2021**, 31, 612-615	2.6	1
14	Bandwidth-extended single-input switchable Doherty power amplifier based on dual compensating reactance with adjusted drain voltage. *IET Microwaves, Antennas and Propagation*, **2021**, 15, 1577-1593	1.6	1
13	**2016**,		1
12	Millimeter-Wave RF Designs **2019**, 1-19		1
11	A new augmented support vector regression-based behavioral model for multi-device power amplifiers. *Microwave and Optical Technology Letters*, **2021**, 63, 455-458	1.2	1
10	Digital Predistortion for Concurrent Dual-band Millimeter Wave Analog Multibeam Transmitters. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 1-1	3.5	1
9	A Uniform Digital Predistorter for Concurrent Multiband Envelope Tracking RF Power Amplifiers With Different Envelopes. *IEEE Transactions on Microwave Theory and Techniques*, **2018**, 66, 3947-3957	4.1	1
8	Highly Efficient Wideband GaN MMIC Doherty Power Amplifier Considering the Output Capacitor Influence of the Peaking Transistor in Class-C Operation. *IEEE Transactions on Circuits and Systems I: Regular Papers*, **2022**, 1-11	3.9	1
7	The Threshold Optimization of the Canonical Piecewise Linear Function-Based Model for RF PA Linearization. *IEEE Microwave and Wireless Components Letters*, **2021**, 1-4	2.6	0
6	Dynamic behavioral modeling of RF power amplifiers based on decomposed piecewise machine learning technique. *International Journal of Microwave and Wireless Technologies*, **2021**, 13, 315-321	0.8	0
5	Harmonic Suppression of a Three-Stage 25-31-GHz GaN MMIC Power Amplifier Using Elliptic Low-Pass Filtering Matching Network. *IEEE Microwave and Wireless Components Letters*, **2022**, 1-4	2.6	0
4	Minimum pulse reservation-based switching frequency reduction for wideband supply modulated power amplifiers. *Electronics Letters*, **2018**, 54, 1009-1011	1.1	
3	A WIDEBAND DOHERTY POWER AMPLIFIER WITH SHUNTED REACTIVE LOAD FOR EFFICIENCY ENHANCEMENT. *Progress in Electromagnetics Research C*, **2017**, 74, 151-160	0.9	
2	A Band-Limited Magnitude-Selective Affine Function-Based Model for Digital Predistortion of 5G Broadband Power Amplifiers. *IEEE Microwave and Wireless Components Letters*, **2021**, 1-4	2.6	
1	Multidimensional Magnitude-Selective Affine-Function-Based Behavioral Model for Multiband Digital Predistortion of RF Power Amplifiers. *IEEE Transactions on Microwave Theory and Techniques* , **2022**, 1-1	4.1	