

# Songbai He

## 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.

109  
papers

1,060  
citations

18  
h-index

28  
g-index

140  
ext. papers

1,386  
ext. citations

2.4  
avg, IF

4.78  
L-index

#	Paper	IF	Citations
109	Broadband GaN MMIC Doherty Power Amplifier Using Continuous-Mode Combining for 5G Sub-6 GHz Applications. <i>IEEE Journal of Solid-State Circuits</i> , <b>2022</b> , 1-1	5.5	3
108	Segmented Statistical Error-Based Adaptive Method for Linearization of Power Amplifiers. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2022</b> , 1-4	2.6	
107	Design of a C-Band High-Efficiency Doherty Power Amplifier With Harmonic Control. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2022</b> , 1-4	2.6	
106	Simulated Annealing Particle Swarm Optimization for a Dual-input Broadband GaN Doherty like Load-Modulated Balance Amplifier Design. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2022</b> , 1-1	3.5	
105	A Wide Stopband Dual-Band Bandpass Filter Based on Asymmetrical Parallel-Coupled Transmission Line Resonator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2022</b> , 1-1	4.1	0
104	Magnitude Scaling-Based Behavioral Model for Power Amplifiers With Dynamic Power Transmission. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2021</b> , 1-4	2.6	0
103	A Dual Power Mode GaN Doherty Power Amplifier Based on Cascode Transistors. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2021</b> , 1-4	2.6	
102	A High-Gain Doherty Power Amplifier With Harmonic Tuning. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2021</b> , 1-4	2.6	
101	A design of 1 to 4 GHz broadband high-efficiency power amplifier with two-way concurrent active load modulation method. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2021</b> , 31, e22640	1.5	0
100	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2021</b> , 69, 2494-2505	4.1	8
99	Broadband linearizer based on equivalent power-dependent impedance function of diode and load match network. <i>Microwave and Optical Technology Letters</i> , <b>2021</b> , 63, 499-503	1.2	1
98	Group Digital Predistortion With Step Uniformization for Hybrid Beamforming Transmitters. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2021</b> , 31, 88-91	2.6	3
97	Memory cross Volterra model for Doherty power amplifier with group delay mismatch. <i>IEICE Electronics Express</i> , <b>2021</b> , 18, 20210064-20210064	0.5	1
96	Design of dual-mode high efficiency tri-band power amplifier using input and output harmonic control technology. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2021</b> , 31, e22790	1.5	1
95	Design of a C-Band High Efficiency Power Amplifier With Compact Harmonic Control Network. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2021</b> , 31, 1059-1062	2.6	1
94	Design and Analysis of Continuous-Mode Doherty Power Amplifier With Second Harmonic Control. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 1-1	3.5	8
93	Under-Sampling Digital Predistortion of Power Amplifier Using Multi-Tone Mixing Feedback Technique. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2021</b> , 1-1	4.1	2

92	A Direct Solving Approach for High-Order Power Amplifier Matching Network Design. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2020</b> , 68, 3278-3286	4.1	2
91	Design of a Self-Driving Transistor-Based RF-DC Converter Based on Optimized Harmonic-Tuned Rectification Waveforms. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2020</b> , 68, 4433-4444	4.1	3
90	Broadband Doherty Power Amplifier With Transferable Continuous Mode. <i>IEEE Access</i> , <b>2020</b> , 8, 99485-99494	3.5	3
89	Efficiency Analysis of Concurrently Driven Power Amplifiers. <i>IEEE Access</i> , <b>2020</b> , 8, 91379-91393	3.5	
88	Digital Dual-Input Doherty Configuration for Ultrawideband Application. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 7509-7518	8.9	11
87	Third-order complex delta-sigma modulator with arbitrary poles and zeros placement. <i>Electronics Letters</i> , <b>2020</b> , 56, 71-73	1.1	
86	. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2020</b> , 30, 102-105	2.6	8
85	Comments on Analytical Formulas for the Coverage of Tunable Matching Networks for Reconfigurable Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2020</b> , 68, 827-827	4.1	
84	Design of continuous high-efficiency broadband linear power amplifier using two-tone signal analysis. <i>Microwave and Optical Technology Letters</i> , <b>2020</b> , 62, 147-151	1.2	2
83	Co-Design of Matching Sub-Networks to Realize Broadband Symmetrical Doherty With Configurable Back-Off Region. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2020</b> , 67, 1730-1734	3.5	6
82	Adaptive Signal Separation for Dual-Input Doherty Power Amplifier. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2020</b> , 68, 121-131	4.1	3
81	A 3.3-3.3-GHz High-Efficiency Broadband Doherty Power Amplifier. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2020</b> , 30, 1081-1084	2.6	3
80	Analog Predistorter Averaged Digital Predistortion for Power Amplifiers in Hybrid Beam-Forming Multi-Input Multi-Output Transmitter. <i>IEEE Access</i> , <b>2020</b> , 8, 146145-146153	3.5	6
79	. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2020</b> , 30, 1077-1080	2.6	3
78	A simplified adaptive sparse digital pre-distorter for joint mitigation of frequency-dependent transmitter impairments. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2020</b> , 30, e22056	1.5	1
77	Lowpass Network Synthesis Using Feldtkeller Correction Approach. <i>IEEE Access</i> , <b>2019</b> , 7, 27970-27982	3.5	3
76	. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2019</b> , 29, 569-569	2.6	
75	A double screening orthogonal-matching-pursuit algorithm for compressed sensing receiver with high column correlation sensing matrix. <i>IEICE Electronics Express</i> , <b>2019</b> , 16, 20190419-20190419	0.5	1

74	. <i>IEEE Access</i> , <b>2019</b> , 7, 131188-131200	3.5	9
73	Canceling Intermodulation Products: A High-Efficiency and Linear-Asymmetric Doherty PA. <i>IEEE Microwave Magazine</i> , <b>2019</b> , 20, 98-103	1.2	7
72	. <i>IEEE Microwave Magazine</i> , <b>2019</b> , 20, 89-101	1.2	13
71	Impacts of continuous modes approach on the back-off efficiency of Doherty power amplifiers. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2019</b> , 33, 1297-1306	1.3	
70	An Accurate Three-Input Nonlinear Model for Joint Compensation of Frequency-Dependent I/Q Imbalance and Power Amplifier Distortion. <i>IEEE Access</i> , <b>2019</b> , 7, 140651-140664	3.5	3
69	Design of Broadband Compressed Sampling Receiver Based on Concurrent Alternate Random Sequences. <i>IEEE Access</i> , <b>2019</b> , 7, 135525-135538	3.5	5
68	Harmonic-tuned continuum mode active load modulation output combiner for the design of broadband asymmetric Doherty power amplifiers. <i>IET Microwaves, Antennas and Propagation</i> , <b>2019</b> , 13, 1226-1234	1.6	4
67	High-efficiency series-parallel form hybrid envelope-tracking power supply based on the optimised power losses. <i>Electronics Letters</i> , <b>2019</b> , 55, 810-813	1.1	1
66	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 9628-9631	8.9	9
65	An Improved Signal Reconstruction of Modulated Wideband Converter Using a Sensing Matrix Built upon Synchronized Modulated Signals. <i>Circuits, Systems, and Signal Processing</i> , <b>2019</b> , 38, 3187-3210	2.2	11
64	High-Efficiency Power Amplifier Employing Minimum-Power Harmonic Active Load Modulator. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2019</b> , 66, 1371-1375	3.5	7
63	Design of Broadband High-Efficiency Power Amplifier Through Interpolations on Continuous Operation-Modes. <i>IEEE Access</i> , <b>2019</b> , 7, 10663-10671	3.5	8
62	Volterra series-based model for concurrent dual-band power amplifier using dynamic memory depth. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2019</b> , 29, e21578	1.5	1
61	A 0.25-1.25-GHz High-Efficiency Power Amplifier With Computer-Aided Design Based on Optimized Impedance Solution Continuum. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2018</b> , 28, 443-445	2.6	11
60	An Interband Time-Delay Compensation Algorithm for Concurrent Dual-Band Power Amplifier Characterization. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2018</b> , 28, 332-334	2.6	0
59	Codesign of High-Efficiency Power Amplifier and Ring-Resonator Filter Based on a Series of Continuous Modes and Even/Odd-Mode Analysis. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 2867-2878	4.1	19
58	Design of Broadband Modified Class-J Doherty Power Amplifier With Specific Second Harmonic Terminations. <i>IEEE Access</i> , <b>2018</b> , 6, 2531-2540	3.5	33
57	Design of Broadband High-Efficiency Power Amplifiers Based on the Hybrid Continuous Modes With Phase Shift Parameter. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2018</b> , 28, 159-161	2.6	25

56	Compressive sensing-based adaptive sparse predistorter design for power amplifier linearization. <i>International Journal of Circuit Theory and Applications</i> , <b>2018</b> , 46, 812-826	2	1
55	A 2.4/3.5/5.2/5.8-GHz quad-band BPF using SLRs and triangular loop resonators. <i>Electronics Letters</i> , <b>2018</b> , 54, 299-301	1.1	7
54	Broadband Continuous-Mode Doherty Power Amplifiers With Noninfinity Peaking Impedance. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2018</b> , 66, 1034-1046	4.1	55
53	Hardware Design of DC-3GHz Compressed Sensing Receiver Based on Modulated Wideband Converter <b>2018</b> ,		2
52	Lower-frequency feedback dual-band PA with very high efficiency. <i>Electronics Letters</i> , <b>2018</b> , 54, 34-35	1.1	
51	A Simplified Sparse Parameter Identification Algorithm Suitable for Power Amplifier Behavioral Modeling. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2017</b> , 27, 290-292	2.6	7
50	A Semianalytical Matching Approach for Power Amplifier With Extended Chebyshev Function and Real Frequency Technique. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 3892-3902	4.1	19
49	Dynamic deviation memory polynomial model for digital predistortion. <i>Electronics Letters</i> , <b>2017</b> , 53, 606-607		2
48	Extended theoretical analysis method on the performance of high-efficiency power amplifiers by solving nonlinear waveform determination process. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2017</b> , 27, e21073	1.5	2
47	Power amplifier behavioral model adaptive pruning using conjugate gradient-based greedy algorithm. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , <b>2017</b> , 12, S181-S182	1	
46	A quad-band bandpass filter using split-ring based on T-shaped stub-loaded step-impedance resonators. <i>Microwave and Optical Technology Letters</i> , <b>2017</b> , 59, 2098-2104	1.2	4
45	Multi-cell harmonics and intermodulation compensation architecture for concurrent dual-band transmitters <b>2017</b> ,		3
44	Co-design of two-way doherty power amplifier and filter for concurrent dual-band application. <i>Microwave and Optical Technology Letters</i> , <b>2017</b> , 59, 530-533	1.2	2
43	The Influence of the Output Impedances of Peaking Power Amplifier on Broadband Doherty Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2017</b> , 65, 3002-3013	4.1	37
42	Sub-optimal matching method for dual-band class-J power amplifier using real frequency technique. <i>IET Microwaves, Antennas and Propagation</i> , <b>2017</b> , 11, 1218-1226	1.6	14
41	Extending high-efficiency power range of symmetrical Doherty power amplifiers by taking advantage of peaking stage. <i>IET Microwaves, Antennas and Propagation</i> , <b>2017</b> , 11, 1296-1302	1.6	18
40	A waveform-verified broadband class-E power amplifier design utilizing finite number of harmonics <b>2017</b> ,		2
39	Transparent 5.8 GHz filter based on graphene <b>2017</b> ,		2

38	C-band general Class-J power amplifier using GaN HEMT. <i>IEICE Electronics Express</i> , <b>2016</b> , 13, 20160483-20160483		
37	Concurrent tri-band power amplifier based on novel tri-band impedance transformer. <i>IEICE Electronics Express</i> , <b>2016</b> , 13, 20160896-20160896	0.5	1
36	A Series of Inverse Continuous Modes for Designing Broadband Power Amplifiers. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2016</b> , 26, 525-527	2.6	23
35	Design of Broadband Power Amplifiers Based on Resistive-Reactive Series of Continuous Modes. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2016</b> , 26, 519-521	2.6	28
34	A Novel Design of Concurrent Dual-Band High Efficiency Power Amplifiers With Harmonic Control Circuits. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2016</b> , 26, 137-139	2.6	24
33	Novel Unequal Dividing Power Divider With 50 $\Omega$ Characteristic Impedance Lines. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2016</b> , 26, 180-182	2.6	15
32	Digital Predistortion for Power Amplifier Based on Sparse Bayesian Learning. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2016</b> , 63, 828-832	3.5	21
31	Design of a Post-Matching Asymmetric Doherty Power Amplifier for Broadband Applications. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2016</b> , 26, 52-54	2.6	51
30	Realization of High Efficient Linear Power Amplifier with Harmonic Tuning. <i>IEEJ Transactions on Electronics, Information and Systems</i> , <b>2016</b> , 136, 434-435	0.1	
29	Design of continuous-mode GaN power amplifier with compact fundamental impedance solutions on package plane. <i>IET Microwaves, Antennas and Propagation</i> , <b>2016</b> , 10, 1056-1064	1.6	17
28	Extend the Class-B to Class-J Continuum Mode by Adding Arbitrary Harmonic Voltage Elements. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2016</b> , 26, 522-524	2.6	28
27	A 60-GHz 19.8-mW Current-Reuse Active Phase Shifter With Tunable Current-Splitting Technique in 90-nm CMOS. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2016</b> , 64, 1572-1584	4.1	34
26	Design of controllable diode PL. <i>Electronics Letters</i> , <b>2016</b> , 52, 1712-1714	1.1	0
25	Investigation of Inverse Class-E Power Amplifier at Sub-Nominal Condition for Any Duty Ratio. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2015</b> , 62, 1015-1024	3.9	10
24	Semi-analytic design method for dual-band power amplifiers. <i>Electronics Letters</i> , <b>2015</b> , 51, 1336-1337	1.1	9
23	Broadband high-efficiency power amplifiers design based on hybrid continuous modes utilizing the optimal impedances at package plane <b>2015</b> ,		4
22	A 0.4-2.3 GHz broadband power amplifier extended continuous class-F design technology. <i>International Journal of Electronics</i> , <b>2015</b> , 102, 1320-1333	1.2	6
21	A Post-Matching Doherty Power Amplifier Employing Low-Order Impedance Inverters for Broadband Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 4061-4071	4.1	101

20	Analysis of Inverse Class-E Power Amplifier at Subnominal Condition With 50% Duty Ratio. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2015</b> , 62, 342-346	3.5	7
19	A New Distributed Parameter Broadband Matching Method for Power Amplifier via Real Frequency Technique. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2015</b> , 63, 449-458	4.1	69
18	1.7/2.6GHz high-efficiency concurrent dual-band power amplifier with dual-band harmonic wave controlled transformer. <i>Electronics Letters</i> , <b>2014</b> , 50, 184-185	1.1	20
17	Design of Broadband High-Efficiency Power Amplifiers Based on a Series of Continuous Modes. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2014</b> , 24, 631-633	2.6	51
16	Test bed for characterization and predistortion of power amplifiers. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2013</b> , 23, 74-82	1.5	10
15	Analysis of a Broadband High-Efficiency Switch-Mode $\Delta/\Sigma$ Supply Modulator Based on a Class-E Amplifier and a Class-E Rectifier. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2013</b> , 61, 2934-2948	4.1	9
14	Analysis and Modeling of the Non-ideal Performance in a Polar Transmitter Caused by Limited Bandwidth and Inaccurate Pulsewidth in a $\Sigma$ Envelope Modulator. <i>Circuits, Systems, and Signal Processing</i> , <b>2013</b> , 32, 1745-1769	2.2	
13	Design of Broadband Linear and Efficient Power Amplifier for Long-Term Evolution Applications. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2013</b> , 23, 653-655	2.6	17
12	The design and realization of high-efficiency power amplifier with drain efficiency over 80% at 3.5 GHz. <i>Microwave and Optical Technology Letters</i> , <b>2012</b> , 54, 521-525	1.2	1
11	A systematic method to design high efficiency harmonic tuned power amplifier with PAE over 80% <b>2012</b> ,		1
10	An open-loop digital predistorter based on memory polynomial inverses for linearization of RF power amplifier. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2011</b> , 21, 589-595	4.5	13
9	Performance study of an inverse class E power amplifier with series tunable parallel resonant tank. <i>International Journal of Microwave and Wireless Technologies</i> , <b>2011</b> , 3, 405-413	0.8	2
8	Design and Simulation of an Optimized DDS <b>2010</b> ,		1
7	High-Efficiency Single-Ended Class- $E/F_2$ Power Amplifier With Finite DC Feed Inductor. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2010</b> , 58, 32-40	4.1	18
6	Analysis of the feedback envelope tracking linear class E power amplifier. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2010</b> , 64, 129-136	1.2	2
5	A memory polynomial predistorter for compensation of nonlinearity with memory effects in WCDMA transmitters <b>2009</b> ,		1
4	The Effects of Limited Drain Current and On Resistance on the Performance of an LDMOS Inverse Class-E Power Amplifier. <i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2009</b> , 57, 336-343	4.1	9
3	Complex radial basis function networks trained by QR-decomposition recursive least square algorithms applied in behavioral modeling of nonlinear power amplifiers. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2009</b> , 19, 634-646	1.5	7

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|---|---|-----|----|
| 2 | Performance Study of a Class-E Power Amplifier With Tuned Series-Parallel Resonance Network.<br><i>IEEE Transactions on Microwave Theory and Techniques</i> , <b>2008</b> , 56, 2190-2200 | 4.1 | 15 |
| 1 | Impulsive Synchronization for T-S Fuzzy Model-based Chaotic Systems <b>2007</b> ,   |     | 1  |