

Songbai He

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3243285/songbai-he-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	A Post-Matching Doherty Power Amplifier Employing Low-Order Impedance Inverters for Broadband Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 4061-4071	4.1	101
108	A New Distributed Parameter Broadband Matching Method for Power Amplifier via Real Frequency Technique. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 449-458	4.1	69
107	Broadband Continuous-Mode Doherty Power Amplifiers With Noninfinity Peaking Impedance. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 1034-1046	4.1	55
106	Design of a Post-Matching Asymmetric Doherty Power Amplifier for Broadband Applications. <i>IEEE Microwave and Wireless Components Letters</i> , 2016 , 26, 52-54	2.6	51
105	Design of Broadband High-Efficiency Power Amplifiers Based on a Series of Continuous Modes. <i>IEEE Microwave and Wireless Components Letters</i> , 2014 , 24, 631-633	2.6	51
104	The Influence of the Output Impedances of Peaking Power Amplifier on Broadband Doherty Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 3002-3013	4.1	37
103	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> , 2016 , 64, 1572-1584	4.1	34
102	Design of Broadband Modified Class-J Doherty Power Amplifier With Specific Second Harmonic Terminations. <i>IEEE Access</i> , 2018 , 6, 2531-2540	3.5	33
101	Design of Broadband Power Amplifiers Based on Resistive-Reactive Series of Continuous Modes. <i>IEEE Microwave and Wireless Components Letters</i> , 2016 , 26, 519-521	2.6	28
100	Extend the Class-B to Class-J Continuum Mode by Adding Arbitrary Harmonic Voltage Elements. <i>IEEE Microwave and Wireless Components Letters</i> , 2016 , 26, 522-524	2.6	28
99	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> , 2018 , 28, 159-161	2.6	25
98	A Novel Design of Concurrent Dual-Band High Efficiency Power Amplifiers With Harmonic Control Circuits. <i>IEEE Microwave and Wireless Components Letters</i> , 2016 , 26, 137-139	2.6	24
97	A Series of Inverse Continuous Modes for Designing Broadband Power Amplifiers. <i>IEEE Microwave and Wireless Components Letters</i> , 2016 , 26, 525-527	2.6	23
96	Digital Predistortion for Power Amplifier Based on Sparse Bayesian Learning. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2016 , 63, 828-832	3.5	21
95	1.7/2.6GHz high-efficiency concurrent dual-band power amplifier with dual-band harmonic wave controlled transformer. <i>Electronics Letters</i> , 2014 , 50, 184-185	1.1	20
94	A Semianalytical Matching Approach for Power Amplifier With Extended Chebyshev Function and Real Frequency Technique. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 3892-3902	4.1	19
93	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> , 2018 , 66, 2867-2878	4.1	19

92	Extending high-efficiency power range of symmetrical Doherty power amplifiers by taking advantage of peaking stage. <i>IET Microwaves, Antennas and Propagation</i> , 2017 , 11, 1296-1302	1.6	18
91	High-Efficiency Single-Ended Class- E/F_2 Power Amplifier With Finite DC Feed Inductor. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 32-40	4.1	18
90	Design of Broadband Linear and Efficient Power Amplifier for Long-Term Evolution Applications. <i>IEEE Microwave and Wireless Components Letters</i> , 2013 , 23, 653-655	2.6	17
89	Design of continuous-mode GaN power amplifier with compact fundamental impedance solutions on package plane. <i>IET Microwaves, Antennas and Propagation</i> , 2016 , 10, 1056-1064	1.6	17
88	Novel Unequal Dividing Power Divider With 50 Ω Characteristic Impedance Lines. <i>IEEE Microwave and Wireless Components Letters</i> , 2016 , 26, 180-182	2.6	15
87	Performance Study of a Class-E Power Amplifier With Tuned Series-Parallel Resonance Network. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 2190-2200	4.1	15
86	Sub-optimal matching method for dual-band class-J power amplifier using real frequency technique. <i>IET Microwaves, Antennas and Propagation</i> , 2017 , 11, 1218-1226	1.6	14
85	. <i>IEEE Microwave Magazine</i> , 2019 , 20, 89-101	1.2	13
84	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> , 2011 , 21, 589-595	1.5	13
83	Digital Dual-Input Doherty Configuration for Ultrawideband Application. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 7509-7518	8.9	11
82	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> , 2018 , 28, 443-445	2.6	11
81	An Improved Signal Reconstruction of Modulated Wideband Converter Using a Sensing Matrix Built upon Synchronized Modulated Signals. <i>Circuits, Systems, and Signal Processing</i> , 2019 , 38, 3187-3210	2.2	11
80	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> , 2015 , 62, 1015-1024	3.9	10
79	Test bed for characterization and predistortion of power amplifiers. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , 2013 , 23, 74-82	1.5	10
78	. <i>IEEE Access</i> , 2019 , 7, 131188-131200	3.5	9
77	Semi-analytic design method for dual-band power amplifiers. <i>Electronics Letters</i> , 2015 , 51, 1336-1337	1.1	9
76	Analysis of a Broadband High-Efficiency Switch-Mode Δ/Σ Supply Modulator Based on a Class-E Amplifier and a Class-E Rectifier. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013 , 61, 2934-2948	4.1	9
75	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> , 2009 , 57, 336-343	4.1	9

74	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 9628-9631	8.9	9
73	. <i>IEEE Microwave and Wireless Components Letters</i> , 2020 , 30, 102-105	2.6	8
72	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 69, 2494-2505	4.1	8
71	Design of Broadband High-Efficiency Power Amplifier Through Interpolations on Continuous Operation-Modes. <i>IEEE Access</i> , 2019 , 7, 10663-10671	3.5	8
70	Design and Analysis of Continuous-Mode Doherty Power Amplifier With Second Harmonic Control. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	8
69	A Simplified Sparse Parameter Identification Algorithm Suitable for Power Amplifier Behavioral Modeling. <i>IEEE Microwave and Wireless Components Letters</i> , 2017 , 27, 290-292	2.6	7
68	Canceling Intermodulation Products: A High-Efficiency and Linear-Asymmetric Doherty PA. <i>IEEE Microwave Magazine</i> , 2019 , 20, 98-103	1.2	7
67	A 2.4/3.5/5.2/5.8-GHz quad-band BPF using SLRs and triangular loop resonators. <i>Electronics Letters</i> , 2018 , 54, 299-301	1.1	7
66	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> , 2015 , 62, 342-346	3.5	7
65	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> , 2009 , 19, 634-646	1.5	7
64	High-Efficiency Power Amplifier Employing Minimum-Power Harmonic Active Load Modulator. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2019 , 66, 1371-1375	3.5	7
63	A 0.4-2.3 GHz broadband power amplifier extended continuous class-F design technology. <i>International Journal of Electronics</i> , 2015 , 102, 1320-1333	1.2	6
62	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> , 2020 , 67, 1730-1734	3.5	6
61	Analog Predistorter Averaged Digital Predistortion for Power Amplifiers in Hybrid Beam-Forming Multi-Input Multi-Output Transmitter. <i>IEEE Access</i> , 2020 , 8, 146145-146153	3.5	6
60	Design of Broadband Compressed Sampling Receiver Based on Concurrent Alternate Random Sequences. <i>IEEE Access</i> , 2019 , 7, 135525-135538	3.5	5
59	A quad-band bandpass filter using split-ring based on T-shaped stub-loaded step-impedance resonators. <i>Microwave and Optical Technology Letters</i> , 2017 , 59, 2098-2104	1.2	4
58	Broadband high-efficiency power amplifiers design based on hybrid continuous modes utilizing the optimal impedances at package plane 2015 ,		4
57	C-band general Class-J power amplifier using GaN HEMT. <i>IEICE Electronics Express</i> , 2016 , 13, 20160483-20160483		4

56	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> , 2019 , 13, 1226-1234	1.6	4
55	Multi-cell harmonics and intermodulation compensation architecture for concurrent dual-band transmitters 2017 ,		3
54	Lowpass Network Synthesis Using Beldtkeller Correction Approach \square <i>IEEE Access</i> , 2019 , 7, 27970-27982	3.5	3
53	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> , 2020 , 68, 4433-4444	4.1	3
52	Broadband Doherty Power Amplifier With Transferable Continuous Mode. <i>IEEE Access</i> , 2020 , 8, 99485-99494	3.5	3
51	An Accurate Three-Input Nonlinear Model for Joint Compensation of Frequency-Dependent I/Q Imbalance and Power Amplifier Distortion. <i>IEEE Access</i> , 2019 , 7, 140651-140664	3.5	3
50	Broadband GaN MMIC Doherty Power Amplifier Using Continuous-Mode Combining for 5G Sub-6 GHz Applications. <i>IEEE Journal of Solid-State Circuits</i> , 2022 , 1-1	5.5	3
49	Adaptive Signal Separation for Dual-Input Doherty Power Amplifier. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 121-131	4.1	3
48	A 3.3-3.3-GHz High-Efficiency Broadband Doherty Power Amplifier. <i>IEEE Microwave and Wireless Components Letters</i> , 2020 , 30, 1081-1084	2.6	3
47	. <i>IEEE Microwave and Wireless Components Letters</i> , 2020 , 30, 1077-1080	2.6	3
46	Group Digital Predistortion With Step Uniformization for Hybrid Beamforming Transmitters. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 31, 88-91	2.6	3
45	Dynamic deviation memory polynomial model for digital predistortion. <i>Electronics Letters</i> , 2017 , 53, 606-607		2
44	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> , 2017 , 27, e21073	1.5	2
43	Co-design of two-way doherty power amplifier and filter for concurrent dual-band application. <i>Microwave and Optical Technology Letters</i> , 2017 , 59, 530-533	1.2	2
42	A Direct Solving Approach for High-Order Power Amplifier Matching Network Design. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 3278-3286	4.1	2
41	A waveform-verified broadband class-E power amplifier design utilizing finite number of harmonics 2017 ,		2
40	Transparent 5.8 GHz filter based on graphene 2017 ,		2
39	Performance study of an inverse class E power amplifier with series tunable parallel resonant tank. <i>International Journal of Microwave and Wireless Technologies</i> , 2011 , 3, 405-413	0.8	2

38	Analysis of the feedback envelope tracking linear class E power amplifier. <i>Analog Integrated Circuits and Signal Processing</i> , 2010 , 64, 129-136	1.2	2
37	Design of continuous high-efficiency broadband linear power amplifier using two-tone signal analysis. <i>Microwave and Optical Technology Letters</i> , 2020 , 62, 147-151	1.2	2
36	Hardware Design of DC-3GHz Compressed Sensing Receiver Based on Modulated Wideband Converter 2018 ,		2
35	Under-Sampling Digital Predistortion of Power Amplifier Using Multi-Tone Mixing Feedback Technique. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021 , 1-1	4.1	2
34	A double screening orthogonal-matching-pursuit algorithm for compressed sensing receiver with high column correlation sensing matrix. <i>IEICE Electronics Express</i> , 2019 , 16, 20190419-20190419	0.5	1
33	Compressive sensing-based adaptive sparse predistorter design for power amplifier linearization. <i>International Journal of Circuit Theory and Applications</i> , 2018 , 46, 812-826	2	1
32	Concurrent tri-band power amplifier based on novel tri-band impedance transformer. <i>IEICE Electronics Express</i> , 2016 , 13, 20160896-20160896	0.5	1
31	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> , 2012 , 54, 521-525	1.2	1
30	Design and Simulation of an Optimized DDS 2010 ,		1
29	A memory polynomial predistorter for compensation of nonlinearity with memory effects in WCDMA transmitters 2009 ,		1
28	A systematic method to design high efficiency harmonic tuned power amplifier with PAE over 80% 2012 ,		1
27	Impulsive Synchronization for T-S Fuzzy Model-based Chaotic Systems 2007 ,		1
26	High-efficiency series-parallel form hybrid envelope-tracking power supply based on the optimised power losses. <i>Electronics Letters</i> , 2019 , 55, 810-813	1.1	1
25	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> , 2019 , 29, e21578	1.5	1
24	Broadband linearizer based on equivalent power-dependent impedance function of diode and load match network. <i>Microwave and Optical Technology Letters</i> , 2021 , 63, 499-503	1.2	1
23	Memory cross Volterra model for Doherty power amplifier with group delay mismatch. <i>IEICE Electronics Express</i> , 2021 , 18, 20210064-20210064	0.5	1
22	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> , 2021 , 31, e22790	1.5	1
21	Design of a C-Band High Efficiency Power Amplifier With Compact Harmonic Control Network. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 31, 1059-1062	2.6	1

20	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> , 2020 , 30, e22056	1.5	1
19	An Interband Time-Delay Compensation Algorithm for Concurrent Dual-Band Power Amplifier Characterization. <i>IEEE Microwave and Wireless Components Letters</i> , 2018 , 28, 332-334	2.6	0
18	Magnitude Scaling-Based Behavioral Model for Power Amplifiers With Dynamic Power Transmission. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 1-4	2.6	0
17	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> , 2021 , 31, e22640	1.5	0
16	Design of controllable diode PL. <i>Electronics Letters</i> , 2016 , 52, 1712-1714	1.1	0
15	A Wide Stopband Dual-Band Bandpass Filter Based on Asymmetrical Parallel-Coupled Transmission Line Resonator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022 , 1-1	4.1	0
14	Power amplifier behavioral model adaptive pruning using conjugate gradient-based greedy algorithm. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 2017 , 12, S181-S182	1	
13	. <i>IEEE Microwave and Wireless Components Letters</i> , 2019 , 29, 569-569	2.6	
12	Impacts of continuous modes approach on the back-off efficiency of Doherty power amplifiers. <i>Journal of Electromagnetic Waves and Applications</i> , 2019 , 33, 1297-1306	1.3	
11	Efficiency Analysis of Concurrently Driven Power Amplifiers. <i>IEEE Access</i> , 2020 , 8, 91379-91393	3.5	
10	Third-order complex delta-sigma modulator with arbitrary poles and zeros placement. <i>Electronics Letters</i> , 2020 , 56, 71-73	1.1	
9	Comments on Analytical Formulas for the Coverage of Tunable Matching Networks for Reconfigurable Applications <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 827-827	4.1	
8	Analysis and Modeling of the Non-ideal Performance in a Polar Transmitter Caused by Limited Bandwidth and Inaccurate Pulsewidth in a Envelope Modulator. <i>Circuits, Systems, and Signal Processing</i> , 2013 , 32, 1745-1769	2.2	
7	A Dual Power Mode GaN Doherty Power Amplifier Based on Cascode Transistors. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 1-4	2.6	
6	A High-Gain Doherty Power Amplifier With Harmonic Tuning. <i>IEEE Microwave and Wireless Components Letters</i> , 2021 , 1-4	2.6	
5	Realization of High Efficient Linear Power Amplifier with Harmonic Tuning. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2016 , 136, 434-435	0.1	
4	Lower-frequency feedback dual-band PA with very high efficiency. <i>Electronics Letters</i> , 2018 , 54, 34-35	1.1	
3	Segmented Statistical Error-Based Adaptive Method for Linearization of Power Amplifiers. <i>IEEE Microwave and Wireless Components Letters</i> , 2022 , 1-4	2.6	

2	Design of a C-Band High-Efficiency Doherty Power Amplifier With Harmonic Control. <i>IEEE Microwave and Wireless Components Letters</i> , 2022 , 1-4	2.6
1	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> , 2022 , 1-1	3.5