

# Kwok-Keung Cheng

## List of Publications by Year in descending order

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57  
papers

1,174  
citations

430442

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57  
docs citations

57  
times ranked

714  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of Nonideal Auxiliary Current Profile on Linearity of Microwave Doherty Amplifiers: Theory and Experiments. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 2325-2338.	3.5	4
2	Single-Chip CMOS Reconfigurable Dual-Band Tri-Mode High-Efficiency RF Amplifier Design. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 868-872.	2.2	9
3	Peak-Current-Ratio-Enhanced Compact Symmetrical Doherty Amplifier Design by Using Active Harmonic Control. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3158-3170.	2.9	5
4	Decoupling of 2 $\times$ 2 MIMO Antenna by Using Mixed Radiation Modes and Novel Patch Element Design. IEEE Transactions on Antennas and Propagation, 2021, 69, 8204-8213.	3.1	15
5	Novel Dual-Band Equal-Cell Doherty Amplifier Design With Extended Power Back-Off Range. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1012-1021.	2.9	29
6	Decoupling of Two-Element Printed-Dipole Antenna Array by Optimal Meandering Design. IEEE Transactions on Antennas and Propagation, 2020, 68, 7328-7338.	3.1	13
7	Compact Wideband Decoupling and Matching Network Design for Dual-Antenna Array. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 791-795.	2.4	33
8	Bandwidth Enhancement of Frequency Dispersive Doherty Power Amplifier. IEEE Microwave and Wireless Components Letters, 2020, 30, 185-188.	2.0	15
9	A Simple Design Methodology of Compact, Wide OBO Range, Symmetrical Doherty Amplifier with Non-Ideal Effects. , 2020, , .		2
10	A Mixed Topology for Broadband High-Efficiency Doherty Power Amplifier. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 1050-1064.	2.9	29
11	Linearity-enhanced Dual-power-mode CMOS RF Power Amplifier Design Using Post-distortion. , 2019, , .		0
12	A Novel Dual-Band Decoupling and Matching Technique for Asymmetric Antenna Arrays. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 2080-2089.	2.9	38
13	Two-Way Doherty Power Amplifier Efficiency Enhancement by Incorporating Transistors's Nonlinear Phase Distortion. IEEE Microwave and Wireless Components Letters, 2018, 28, 168-170.	2.0	24
14	A Novel Design of Dual-Band Rat-Race Coupler With Reconfigurable Power-Dividing Ratio. IEEE Microwave and Wireless Components Letters, 2018, 28, 16-18.	2.0	15
15	Novel Dual Power-Mode CMOS Differential Power Amplifier Design Using Single Supply Voltage and a Compact Reconfigurable Output Combining Network. , 2018, , .		0
16	Modified Doherty Amplifier With Extended Bandwidth and Back-Off Power Range Using Optimized Peak Combining Current Ratio. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5347-5357.	2.9	36
17	Dual-Mode CMOS RF Power Amplifier Design Using a Novel Reconfigurable Single-Switch Single-Inductor Balun. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 4585-4594.	2.9	8
18	Extended Efficiency Range, Equal-Cell Doherty Amplifier Design Using Explicit Circuit Model. IEEE Microwave and Wireless Components Letters, 2017, 27, 497-499.	2.0	20

#	ARTICLE	IF	CITATIONS
19	A Novel and Simple Decoupling Method for a Three-Element Antenna Array. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1072-1075.	2.4	19
20	Continuously Tunable Polarization Agile Antenna Design Using a Novel Varactor-Only Signal Control Device. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 1147-1150.	2.4	9
21	Polarization reconfigurable antenna design using a novel and compact variable signal splitter. , 2017, , .		1
22	A steerable linearly-polarized antenna design based upon a novel variable signal splitter. , 2017, , .		0
23	Built-in AM/AM and AM/PM distortion study of generalized symmetrical Doherty amplifier. , 2017, , .		3
24	Novel wideband decoupling technique for MIMO antenna arrays with two independently controlled transmission zeros. , 2017, , .		9
25	Linearity enhancement in CMOS power amplifier design by using varactor-embedded output matching network. , 2016, , .		0
26	Linearity enhancement in CMOS power amplifier design by using varactor-embedded output matching network. , 2016, , .		0
27	Broadband, wide efficiency range, Doherty Amplifier design using frequency-varying Complex Combining Load. , 2015, , .		17
28	A Varactor-Based Variable Attenuator Design With Enhanced Linearity Performance. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 3191-3198.	2.9	11
29	Improving Power Utilization Factor of Broadband Doherty Amplifier by Using Bandpass Auxiliary Transformer. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2811-2820.	2.9	45
30	A novel, varactor-based microwave attenuator with wide tuning ratio and flat insertion loss response. , 2014, , .		1
31	Extension of High-Efficiency Range of Doherty Amplifier by Using Complex Combining Load. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2038-2047.	2.9	97
32	Group Delay Investigation of Rat-Race Coupler Design With Tunable Power Dividing Ratio. IEEE Microwave and Wireless Components Letters, 2014, 24, 324-326.	2.0	11
33	A Frequency-Compensated Rat-Race Coupler With Wide Bandwidth and Tunable Power Dividing Ratio. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2841-2847.	2.9	31
34	A Novel Transformer Based Current Reused VCO/ILFD With Variable Dividing Ratio. IEEE Microwave and Wireless Components Letters, 2013, 23, 140-142.	2.0	2
35	A Novel Rat-Race Coupler With Tunable Power Dividing Ratio, Ideal Port Isolation, and Return Loss Performance. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 55-60.	2.9	50
36	A Novel, Low-Voltage, Current Reused, Quadrature VCO and Divide-by-4 Frequency Divider Circuit. IEEE Microwave and Wireless Components Letters, 2013, 23, 87-89.	2.0	4

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37	A CMOS Transformer-Based Current Reused SSBM and QVCO for UWB Application. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2395-2401.	2.9	9
38	A 5 GHz, integrated transformer based, variable power divider design in CMOS process. , 2013, , .		1
39	A low-profile, compact, mode-decomposition based antenna array for use in beam-forming application. , 2012, , .		1
40	A Novel Dual-Band 3-dB Branch-Line Coupler Design With Controllable Bandwidths. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3055-3061.	2.9	42
41	A single inductor approach to the design of low-voltage CMOS MB-OFDM UWB frequency synthesizer. , 2012, , .		0
42	Speed enhancement technique for divide-by-4 injection-locked frequency divider and its application to fractional division. , 2011, , .		1
43	A Novel Unequal Power Divider Design With Dual-Harmonic Rejection and Simple Structure. IEEE Microwave and Wireless Components Letters, 2011, 21, 182-184.	2.0	15
44	A 2.4 GHz Quadrature-Input Programmable Fractional Frequency Divider. IEEE Microwave and Wireless Components Letters, 2011, 21, 34-36.	2.0	5
45	A novel 3-way power divider design with multi-harmonic suppression. , 2011, , .		1
46	A Novel, Planar, and Compact Crossover Design for Dual-Band Applications. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 568-573.	2.9	53
47	A novel power divider design with enhanced harmonic suppression and simple layout. , 2010, , .		3
48	A Novel Power-Divider Design With Unequal Power-Dividing Ratio and Simple Layout. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1589-1594.	2.9	83
49	A New Unequal Power-Divider Design With Enhanced Insertion Loss Flatness. IEEE Microwave and Wireless Components Letters, 2009, 19, 786-788.	2.0	4
50	A novel power-divider design with variable dividing ratio. , 2009, , .		7
51	A Novel Approach to the Design and Implementation of Dual-Band Power Divider. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 487-492.	2.9	143
52	A New Approach to the Realization of a Dual-Band Microstrip Filter With Very Wide Upper Stopband. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 1461-1467.	2.9	23
53	Low power quadrature-input programmable frequency divider. , 2008, , .		0
54	A New Wilkinson Power Divider Design for Dual Band Application. IEEE Microwave and Wireless Components Letters, 2007, 17, 664-666.	2.0	156

#	ARTICLE	IF	CITATIONS
55	A compact rat race coupler design for dual-band applications. , 2006, , .		4
56	Ultra low power 2.4-GHz 0.35- $\mu\text{m}$ CMOS dual-modulus prescaler design. IEEE Microwave and Wireless Components Letters, 2006, 16, 75-77.	2.0	6
57	Dual-band Rat-Race Coupler with Bandwidth Enhancement. , 2006, , .		12