

Peigen Zhou

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	A 250–310 GHz Power Amplifier With 15-dB Peak Gain in 130-nm SiGe BiCMOS Process for Terahertz Wireless System. IEEE Transactions on Terahertz Science and Technology, 2022, 12, 1-12.	2.0	16
2	An E-Band SiGe High Efficiency, High Harmonic Suppression Amplifier Multiplier Chain With Wide Temperature Operating Range. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1041-1050.	3.5	6
3	A Wide Tuning Range Low-Phase-Noise Ku/Ka Dual Bands SiGe VCO Based on Transformer-Coupled Tank. IEEE Microwave and Wireless Components Letters, 2022, 32, 437-440.	2.0	4
4	A 37-GHz Asymmetric Doherty Power Amplifier With 28-dBm P_{sat} and 32% Back-Off PAE in 0.1- μ m GaAs Process. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 1391-1400.	2.9	6
5	A Linearity-Enhanced 18.7–36.5-GHz LNA With 1.5–2.1-dB NF for Radar Applications. IEEE Microwave and Wireless Components Letters, 2022, 32, 972-975.	2.0	11
6	Differentially Fed Dual-Polarized 2-D Multibeam Dielectric Resonator Antenna Array Based on Printed Ridge Gap Waveguide. IEEE Transactions on Antennas and Propagation, 2022, 70, 7967-7977.	3.1	8
7	Towards 6G wireless communication networks: vision, enabling technologies, and new paradigm shifts. Science China Information Sciences, 2021, 64, 1.	2.7	858
8	A 300-GHz Transmitter Front End With \sim 4.1-dBm Peak Output Power for Sub-THz Communication Using 130-nm SiGe BiCMOS Technology. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4925-4936.	2.9	14
9	A 220-GHz Power Amplifier With 22.5-dB Gain and 9-dBm P_{sat} in 130-nm SiGe. IEEE Microwave and Wireless Components Letters, 2021, 31, 1166-1169.	2.0	9
10	A High Linearity W-Band LNA With 21-dB Gain and 5.5-dB NF in 0.13 μ m SiGe BiCMOS. , 2021, , .		4
11	A μ -Band Switchable LNA With 2.4-dB NF Employing a Varactor-Based Tunable Network. IEEE Microwave and Wireless Components Letters, 2021, 31, 385-388.	2.0	22
12	A W-band preamplified MMIC power detector for passive imaging applications. Microwave and Optical Technology Letters, 2021, 63, 1875-1880.	0.9	0
13	A Wide Tuning Range low Kvco Ka-Band BiCMOS LC-VCO Using Varactor Bank. , 2021, , .		3
14	A Two-Chip Cascaded FMCW Radar For 2D Angle Estimation. , 2021, , .		5
15	A 77-GHz Fully Integrated Power Amplifier for Automotive Radar Application in 40-nm CMOS. , 2021, , .		1
16	Analysis and Design of D-band High Output Power Signal Sources in 130-nm SiGe BiCMOS Process. , 2021, , .		1
17	A 230-GHz SiGe Amplifier With 21.8-dB Gain and 3-dBm Output Power for Sub-THz Receivers. IEEE Microwave and Wireless Components Letters, 2021, 31, 1004-1007.	2.0	7
18	A 24–30-GHz TRX Front-End With High Linearity and Load-Variation Insensitivity for mm-Wave 5G in 0.13- μ m SiGe BiCMOS. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4561-4575.	2.9	22

#	ARTICLE	IF	CITATIONS
19	A Nonlinear Transmission Line with Harmonic sub-THz Power Generation in a 40 nm CMOS Technology. , 2021, , .		2
20	A Low-Loss Fan-Out Wafer-Level Package With a Novel Redistribution Layer Pattern and Its Measurement Methodology for Millimeter-Wave Application. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2020, 10, 1073-1078.	1.4	7
21	A 250-GHz Differential SiGe Amplifier With 21.5-dB Gain for Sub-THz Transmitters. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 624-633.	2.0	25
22	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.	2.4	19
23	A N260 Band 64 Channel Millimeter Wave Full-Digital Multi-Beam Array for 5G Massive MIMO Applications. IEEE Access, 2020, 8, 47640-47653.	2.6	24
24	A 273.5-312-GHz Signal Source With 2.3 dBm Peak Output Power in a 130-nm SiGe BiCMOS Process. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 260-270.	2.0	8
25	Transformer matched gilbert mixer with active balun for D band transmitter. Microwave and Optical Technology Letters, 2020, 62, 2696-2702.	0.9	2
26	A 150-GHz Transmitter With 12-dBm Peak Output Power Using 130-nm SiGe:C BiCMOS Process. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 3056-3067.	2.9	20
27	A dual mode wideband bandpass filter based on ring structure. , 2020, , .		0
28	A Wide-Bandwidth W-Band LNA in GaAs 0.1 μm pHEMT Technology. , 2020, , .		4
29	A 0.26 THz Power Unit Integrated with an on-Chip Waveguide in a $0.13 \mu\text{m}$ SiGe Technology. , 2020, , .		0
30	E-band power detector with robust temperature performance in 130-nm SiGe BiCMOS. Electronics Letters, 2019, 55, 733-735.	0.5	0
31	A 280-325 GHz Frequency Multiplier Chain With 2.5 dBm Peak Output Power. , 2019, , .		22
32	A Dual-Band Switchable MMIC Star Mixer. IEEE Microwave and Wireless Components Letters, 2019, 29, 737-740.	2.0	9
33	A Q-Band Self-Biased LNA in 0.1- μm GaAs pHEMT Technology. , 2019, , .		6
34	Multibeam Antenna Technologies for 5G Wireless Communications. IEEE Transactions on Antennas and Propagation, 2017, 65, 6231-6249.	3.1	753
35	A compact D-band I/Q mixer with improved transformer balun. Microwave and Optical Technology Letters, 2017, 59, 2840-2844.	0.9	6
36	Design of silicon based millimeter wave oscillators. , 2016, , .		1

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37	Ka-band quadruple SIW filter with controllable transmission zeros. , 2016, , .		2
38	Virtual Phase Shifter Array and Its Application on Ku Band Mobile Satellite Reception. IEEE Transactions on Antennas and Propagation, 2015, 63, 1408-1416.	3.1	35
39	A miniaturized bandpass filter implemented with substrate integrated coaxial line. Microwave and Optical Technology Letters, 2013, 55, 131-133.	0.9	16
40	Low cost octave directional coupler based on substrate integrated coaxial line (SICL) technique. , 2012, , .		7
41	CMOS ICs for the proposed Chinese millimeter wave communication standard Q-LINKPAN/IEEE802.11aj(45GHz). , 2012, , .		6
42	A 50#x2013;70GHz frequency doubler in 90nm CMOS. , 2012, , .		3
43	A high-rejection substrate integrated waveguide filter for Q-LINKPAN applications. , 2012, , .		3
44	Development of a single board microwave sub-system based on substrate integrated waveguide (SIW) technology. , 2012, , .		2
45	Development of V-band low noise amplifiers in 90nm CMOS. , 2012, , .		1
46	Research advances in microwave and millimeter wave circuits and systems in the SKLMMW. , 2012, , .		2
47	Varactor-Tuned Half Mode Substrate Integrated Waveguide reflection-type phase shifter. , 2012, , .		4
48	Integrated millimeter wave filtenna for Q-LINKPAN application. , 2012, , .		6
49	Distributed Modeling of Six-Port Transformer for Millimeter-Wave SiGe BiCMOS Circuits Design. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3728-3738.	2.9	31
50	A Millimeter Wave Six-Port Network Using Half-Mode Substrate Integrated Waveguide. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 348-356.	1.2	5
51	Silicon Based Millimeter Wave and THz ICs. IEICE Transactions on Electronics, 2012, E95.C, 1134-1140.	0.3	4
52	A 26 GHz cross-coupled VCO implemented in 0.13um CMOS technology. , 2011, , .		0
53	A Ka-band transceiver front-end module for wide band wireless communication. , 2011, , .		6
54	A Miniaturized Monolithic 18#x2013;40#x2013;GHz Sub-harmonic Mixer. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 690.	1.2	4

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55	Planar realization of a <i>Q</i> -band triple-mode filter using high- <i>Q</i> resonances. Microwave and Optical Technology Letters, 2009, 51, 600-603.	0.9	14
56	A Millimeter Wave Phase Locked and Frequency Multiplying Source. Journal of Infrared, Millimeter and Terahertz Waves, 2008, 29, 282-290.	0.6	0
57	An LTCC X-band receiver front-end using embedded multilayer substrate integrated waveguide filter. Microwave and Optical Technology Letters, 2008, 50, 285-287.	0.9	9