

# Dixian Zhao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8264635/publications.pdf>

Version: 2024-02-01

59  
papers

1,142  
citations

516215

16  
h-index

433756

31  
g-index

59  
all docs

59  
docs citations

59  
times ranked

736  
citing authors

#	ARTICLE	IF	CITATIONS
1	A 60-GHz Dual-Mode Class AB Power Amplifier in 40-nm CMOS. IEEE Journal of Solid-State Circuits, 2013, 48, 2323-2337.	3.5	194
2	An E-Band Power Amplifier With Broadband Parallel-Series Power Combiner in 40-nm CMOS. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 683-690.	2.9	92
3	A 60-GHz Outphasing Transmitter in 40-nm CMOS. IEEE Journal of Solid-State Circuits, 2012, 47, 3172-3183.	3.5	88
4	A 40-nm CMOS E-Band 4-Way Power Amplifier With Neutralized Bootstrapped Cascode Amplifier and Optimum Passive Circuits. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 4083-4089.	2.9	70
5	A 20-GHz 1.9-mW LNA Using $m$ -Boost and Current-Reuse Techniques in 65-nm CMOS for Satellite Communications. IEEE Journal of Solid-State Circuits, 2020, 55, 2714-2723.	3.5	56
6	A Ka-band CMOS Digital-Controlled Phase-Invariant Variable Gain Amplifier with 4-bit Tuning Range and 0.5-dB Resolution. , 2018, , .		53
7	A 40 nm CMOS E-Band Transmitter With Compact and Symmetrical Layout Floor-Plans. IEEE Journal of Solid-State Circuits, 2015, 50, 2560-2571.	3.5	48
8	Design of an Optimal Layout Polyphase Filter for Millimeter-Wave Quadrature LO Generation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 202-206.	2.2	45
9	Millimeter-Wave Integrated Phased Arrays. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 3977-3990.	3.5	42
10	A DC-50 GHz CMOS Switched-Type Attenuator With Capacitive Compensation Technique. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 3389-3399.	3.5	29
11	Analysis and Design of a CMOS Bidirectional Passive Vector-Modulated Phase Shifter. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 1398-1408.	3.5	29
12	Geometric Analysis and Systematic Design of a Reflective-Type Phase Shifter With Full $360^\circ$ Phase Shift Range and Minimal Loss Variation. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4156-4166.	2.9	26
13	Ka-Band CMOS $360^\circ$ Reflective-Type Phase Shifter with $\pm 0.2$ dB Insertion Loss Variation Using Triple-Resonating Load and Dual-Voltage Control Techniques. , 2018, , .		25
14	A Non-Contact Vital Signs Detection in a Multi-Channel 77GHz LFM CW Radar System. IEEE Access, 2021, 9, 49614-49628.	2.6	24
15	A $24\sim 29.5$ -GHz Highly Linear Phased-Array Transceiver Front-End in 65-nm CMOS Supporting 800-MHz 64-QAM and 400-MHz 256-QAM for 5G New Radio. IEEE Journal of Solid-State Circuits, 2022, 57, 2702-2718.	3.5	23
16	A 28-GHz CMOS Broadband Single-Path Power Amplifier with 17.4-dBm P <sub>1dB</sub> for 5G Phased-Array. , 2018, , .		18
17	Next Generation Wireless Technologies for Internet of Things. Sensors, 2018, 18, 221.	2.1	18
18	High-Efficiency Millimeter-Wave CMOS Switching Rectifiers: Theory and Implementation. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 5171-5180.	2.9	18

#	ARTICLE	IF	CITATIONS
19	A $Ku$ -Band CMOS Power Amplifier With Series-Shunt LC Notch Filter for Satellite Communications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 1869-1880.	3.5	18
20	A Flip-Chip Packaging Design With Waveguide Output on Single-Layer Alumina Board for E-Band Applications. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 1255-1264.	2.9	16
21	High-gain low-cost broadband 60 GHz differential integrated patch array antennas with wire-bonding packaging and on-board compensation network. IET Microwaves, Antennas and Propagation, 2017, 11, 971-975.	0.7	16
22	5G Millimeter-Wave Phased-Array Transceiver: System Considerations and Circuit Implementations. , 2019, , .		13
23	A 28-GHz Doherty Power Amplifier With a Compact Transformer-Based Quadrature Hybrid in 65-nm CMOS. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2790-2794.	2.2	13
24	A Ka-Band CMOS 4-Beam Phased-Array Receiver With Symmetrical Beam-Distribution Network. IEEE Solid-State Circuits Letters, 2020, 3, 410-413.	1.3	11
25	A Broadband 1-dB Noise Figure GaAs Low-Noise Amplifier for Millimeter-Wave 5G Base-Station. , 2018, , .		10
26	A $W$ -Band 2 $\times$ 2 Rectenna Array With On-Chip CMOS Switching Rectifier and On-PCB Tapered Slot Antenna for Wireless Power Transfer. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 969-979.	2.9	10
27	A 196.5 dBc/Hz FOM $T$ 16.8 $\times$ 21.6-GHz Class-F $Q$ CMOS VCO With Transformer-Based Optimal $Q$ -Factor Tank. IEEE Solid-State Circuits Letters, 2022, 5, 62-65.	1.3	10
28	A $Ku$ -Band Low-Noise Amplifier in 40-nm CMOS. , 2019, , .		9
29	Analysis and Design of a CMOS LNA With Transformer-Based Integrated Notch Filter for $Ku$ -Band Satellite Communications. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 790-800.	2.9	9
30	A 1.9-dB NF K-Band Temperature-Healing Phased-Array Receiver Employing Hybrid Packaged 65-nm CMOS Beamformer and 0.1- $\mu$ m GaAs LNAs. IEEE Microwave and Wireless Components Letters, 2022, 32, 768-771.	2.0	9
31	High-Throughput Low-Power Area-Efficient Outphasing Modulator Based on Unrolled and Pipelined Radix-2 CORDIC. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 480-491.	2.1	7
32	A Ka-Band Balanced Four-Beam Phased-Array Receiver With Symmetrical Beam-Distribution Network in 65-nm CMOS. IEEE Access, 2021, 9, 110026-110038.	2.6	7
33	A 60-GHz 14-dBm power amplifier with a transformer-based power combiner in 65-nm CMOS. International Journal of Microwave and Wireless Technologies, 2011, 3, 99-105.	1.5	6
34	21.3-dBm 18.5-GHz $\times$ 8-way E-band power amplifier in 28-nm high performance mobile CMOS. Electronics Letters, 2017, 53, 1310-1312.	0.5	6
35	$Ku$ -band compact Wilkinson power divider based on multi-tap inductor technique in 65-nm CMOS. IEICE Electronics Express, 2018, 15, 20180973-20180973.	0.3	6
36	A $W$ -Band Rectenna Using On-Chip CMOS Switching Rectifier and On-PCB Tapered Slot Antenna Achieving 25% Effective-Power-Conversion Efficiency for Wireless Power Transfer. , 2020, , .		6

#	ARTICLE	IF	CITATIONS
37	An X-Band CMOS VCO Using Ultra-Wideband Dual Common-Mode Resonance Technique. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 3579-3590.	3.5	6
38	A low-power wide gain range digitally controlled variable gain amplifier with a wide tuning bandwidth for 60 GHz applications. , 2016, , .		5
39	Analysis, Design and Modeling of Millimeter-Wave Wilkinson Power Combiner for 5G Phased Array. , 2019, , .		5
40	Ka-Band wideband VCO with LC filtering technique in 65-nm CMOS. Electronics Letters, 2019, 55, 581-583.	0.5	5
41	A 1.2-dB Noise Figure Broadband GaAs Low-Noise Amplifier with 17-dB Gain for Millimeter-Wave 5G Base-Station. , 2018, , .		4
42	RF Front-End Circuits and Architectures for IoT/LTE-A/5G Connectivity. Wireless Communications and Mobile Computing, 2018, 2018, 1-2.	0.8	4
43	94-GHz 360° reflective-type phase shifter with minimal loss variation using triple-resonating load technique. Electronics Letters, 2018, 54, 215-217.	0.5	4
44	A W-Band Switching Rectifier with 27% Efficiency for Wireless Power Transfer in 65-nm CMOS. , 2019, , .		4
45	Geometric Analysis and Systematic Design of Millimeter-Wave Low-Power Frequency Dividers in 65-nm CMOS. IEEE Access, 2020, 8, 20658-20665.	2.6	4
46	A 20-to-75 dB gain 5-dB noise figure broadband 60-GHz receiver with digital calibration. , 2016, , .		3
47	E-Band broadband digital controlled phase-inverting variable gain amplifier in 65-nm CMOS. Electronics Letters, 2021, 57, 179-182.	0.5	3
48	K-band 360° Passive Vector Modulator Phase Shifter with Coupled Line Quadrature Coupler and Passive Transistor Array. , 2021, , .		3
49	A 196.2 dBc/Hz FOM <sub>T</sub> 16.8-to-21.6 GHz Class-F <sub>23</sub> VCO with Transformer-Based Optimal Q-factor Tank in 65-nm CMOS. , 2021, , .		3
50	Low-cost aperture-coupled integrated 60 GHz phased array antenna in PCB process. , 2016, , .		2
51	CORDIC-Based Multi-Gb/s Digital Outphasing Modulator for Highly Efficient Millimeter-Wave Transmitters. Wireless Communications and Mobile Computing, 2018, 2018, 1-6.	0.8	2
52	Key Circuit Building Blocks for 5G Millimeter-Wave Phased-Array Transceiver Front-End (Invited). , 2018, , .		1
53	A 0.45-W 18% PAE E-Band Power Amplifier in 100-nm InGaAs pHEMT Technology. Wireless Communications and Mobile Computing, 2018, 2018, 1-6.	0.8	1
54	A Ka-Band Compact Active Switch With Broadband Amplifiers for Phased-Array Transceiver in 65-nm CMOS. IEEE Solid-State Circuits Letters, 2019, 2, 33-36.	1.3	1

#	ARTICLE	IF	CITATIONS
55	K-band 360° Passive Vector Modulator Phase Shifter with Coupled Line Quadrature Coupler and Passive Transistor Array. , 2021, , .		1
56	Analysis and Design of a 0.3-THz Signal Generator Using an Oscillator-Doubler Architecture in 40-nm CMOS. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 2284-2296.	3.5	1
57	Design Techniques of Passive Devices for Broadband CMOS Millimeter-Wave Circuits. , 2019, , .		0
58	Corrections to "Millimeter-Wave Integrated Phased Arrays" [early access, Jul 12, 21 doi: 10.1109/TCSI.2021.3093093]. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 4413-4413.	3.5	0
59	W-band Amplifiers in 0.1 $\mu$ m GaAs. , 2020, , .		0