

Zhe Chen

List of Publications by Year in descending order

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43
papers

1,582
citations

840119

11
h-index

500791

28
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43
all docs

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docs citations

43
times ranked

1118
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards 6G wireless communication networks: vision, enabling technologies, and new paradigm shifts. <i>Science China Information Sciences</i> , 2021, 64, 1.	2.7	858
2	The Role of Millimeter-Wave Technologies in 5G/6G Wireless Communications. <i>IEEE Journal of Microwaves</i> , 2021, 1, 101-122.	4.9	312
3	Design of High-Q Tunable SIW Resonator and Its Application to Low Phase Noise VCO. <i>IEEE Microwave and Wireless Components Letters</i> , 2013, 23, 43-45.	2.0	68
4	Linear CMOS $\lambda/4$ -VCO Based on Triple-Coupled Inductors and Its Application to 40-GHz Phase-Locked Loop. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017, 65, 2977-2989.	2.9	43
5	Virtual Phase Shifter Array and Its Application on Ku Band Mobile Satellite Reception. <i>IEEE Transactions on Antennas and Propagation</i> , 2015, 63, 1408-1416.	3.1	35
6	Low-phase noise oscillator utilising high-Q active resonator based on substrate integrated waveguide technique. <i>IET Microwaves, Antennas and Propagation</i> , 2014, 8, 137-144.	0.7	26
7	Design and Implementation of an Active Array Antenna With Remote Controllable Radiation Patterns for Mobile Communications. <i>IEEE Transactions on Antennas and Propagation</i> , 2014, 62, 913-921.	3.1	23
8	A 280-325 GHz Frequency Multiplier Chain With 2.5 dBm Peak Output Power. , 2019, , .		22
9	Design and Implementation of a Full-Digital Beamforming Array With Nonreciprocal Tx/Rx Beam Patterns. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2020, 19, 1978-1982.	2.4	19
10	Design of A Push-Push and Push-Pull Oscillator Based on SIW/SICL Technique. <i>IEEE Microwave and Wireless Components Letters</i> , 2014, 24, 397-399.	2.0	18
11	Recent advances in Q-LINKPAN/IEEE 802.11aj (45GHz) millimeter wave communication technologies. , 2013, , .		14
12	High-Q planar active resonator based on substrate integrated waveguide technique. <i>Electronics Letters</i> , 2012, 48, 575.	0.5	11
13	A Linearity-Enhanced 18.7–36.5-GHz LNA With 1.5–2.1-dB NF for Radar Applications. <i>IEEE Microwave and Wireless Components Letters</i> , 2022, 32, 972-975.	2.0	11
14	Wideband inductor compensated doubly balanced I/Q mixer. <i>Electronics Letters</i> , 2016, 52, 1177-1179.	0.5	9
15	A 220-GHz Power Amplifier With 22.5-dB Gain and 9-dBm P_{sat} in 130-nm SiGe. <i>IEEE Microwave and Wireless Components Letters</i> , 2021, 31, 1166-1169.	2.0	9
16	A 273.5–312-GHz Signal Source With 2.3 dBm Peak Output Power in a 130-nm SiGe BiCMOS Process. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2020, 10, 260-270.	2.0	8
17	610-GHz Fourth Harmonic Signal Reactively Generated in a CMOS Voltage Controlled Oscillator Using Differentially Pumped Varactors. <i>IEEE Solid-State Circuits Letters</i> , 2020, 3, 46-49.	1.3	8
18	A 212–260 GHz Broadband Frequency Multiplier Chain ($\lambda/4$) in 130-nm BiCMOS Technology. , 2021, , .		8

#	ARTICLE	IF	CITATIONS
19	Low cost octave directional coupler based on substrate integrated coaxial line (SICL) technique. , 2012, , .		7
20	A 2-D-Canonical Piecewise Linear Function-Based Behavioral Model for Concurrent Dual-Band Power Amplifiers. IEEE Microwave and Wireless Components Letters, 2018, 28, 1050-1052.	2.0	7
21	Generation of High Data Rate MSK-Modulated 180-GHz Signals. IEEE Microwave and Wireless Components Letters, 2019, 29, 757-760.	2.0	7
22	A Ka-band transceiver front-end module for wide band wireless communication. , 2011, , .		6
23	CMOS ICs for the proposed Chinese millimeter wave communication standard Q-LINKPAN/IEEE802.11aj(45GHz). , 2012, , .		6
24	A Q-Band Self-Biased LNA in 0.1- μ m GaAs pHEMT Technology. , 2019, , .		6
25	W-band Scalable 2 \times 2 Phased-Array Transmitter and Receiver Chipsets in SiGe BiCMOS for High Data-Rate Communication. IEEE Journal of Solid-State Circuits, 2022, 57, 2685-2701.	3.5	5
26	A planar active antenna array for hybrid phased array-MIMO system. , 2014, , .		4
27	K-Band Low Phase Noise VCO Based on Q-Boosted Switched Inductor. Electronics (Switzerland), 2019, 8, 1132.	1.8	4
28	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
29	A Q-band doubly balanced mixer in 0.15 μ m GaAs pHEMT technology. , 2014, , .		3
30	A K-Band FMCW Frequency Synthesizer Using Q-Boosted Switched Inductor VCO in SiGe BiCMOS for 77 GHz Radar Applications. Electronics (Switzerland), 2020, 9, 1933.	1.8	3
31	Millimeter-wave wireless communications for home network in fiber-to-the-room scenario. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 441-456.	1.5	3
32	A Wide Tuning Range low Kvco Ka-Band BiCMOS LC-VCO Using Varactor Bank. , 2021, , .		3
33	Research advances in microwave and millimeter wave circuits and systems in the SKLMMW. , 2012, , .		2
34	Design of a Q-band superheterodyne transceiver. , 2016, , .		2
35	Design of silicon based millimeter wave oscillators. , 2016, , .		1
36	Compact 41-93GHz symmetric quadrature hybrid based on multi-conductor coupled line in 65nm CMOS process. Electronics Letters, 2018, 54, 1074-1076.	0.5	1

#	ARTICLE	IF	CITATIONS
37	Q-enhanced switched inductor based on 1:2 transformer. Microwave and Optical Technology Letters, 2019, 61, 2635-2639.	0.9	1
38	CMOS Transceiver Pixels for Terahertz Imaging. , 2019, , .		1
39	180-GHz Broadside Radiation Bond-Wire Antenna for Short-Range Wireless Communication. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2021, 11, 530-532.	1.4	1
40	A 66-76 GHz Wide Dynamic Range GaAs Transceiver for Channel Emulator Application. Micromachines, 2022, 13, 809.	1.4	1
41	Research on Silicon-Based Terahertz Communication Integrated Circuits. Chinese Journal of Electronics, 2022, 31, 516-533.	0.7	1
42	A Low Phase Noise Dual-Loop Dual-Output Frequency Synthesizer in SiGe BiCMOS. Electronics (Switzerland), 2022, 11, 1828.	1.8	1
43	A compact quarter-wavelength stepped-impedance resonator bandpass filter with source-load coupling. , 2015, , .		0