

# Haoshen Zhu

## List of Publications by Year in descending order

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50  
papers

361  
citations

840776

11  
h-index

888059

17  
g-index

50  
all docs

50  
docs citations

50  
times ranked

348  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diameter dependence of electron mobility in InGaAs nanowires. Applied Physics Letters, 2013, 102, .	3.3	31
2	A Wideband CMOS LNA Using Transformer-Based Input Matching and Pole-Tuning Technique. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3335-3347.	4.6	29
3	Design of Phononic Crystal Tethers for Frequency-selective Quality Factor Enhancement in AlN Piezoelectric-on-silicon Resonators. Procedia Engineering, 2015, 120, 516-519.	1.2	25
4	Piezoresistive Readout Mechanically Coupled Lamé Mode SOI Resonator With $Q$ of a Million. Journal of Microelectromechanical Systems, 2015, 24, 771-780.	2.5	22
5	Non-Reciprocal Acoustic Transmission in a GaN Delay Line Using the Acoustoelectric Effect. IEEE Electron Device Letters, 2017, 38, 802-805.	3.9	22
6	A 7.2–27.3 GHz CMOS LNA With $3.51 \pm 0.21$ dB Noise Figure Using Multistage Noise Matching Technique. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 74-84.	4.6	21
7	High Performance Balanced Bandpass Filters With Wideband Common Mode Suppression. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1897-1901.	3.0	18
8	Dependence of temperature coefficient of frequency (TCf) on crystallography and eigenmode in N-doped silicon contour mode micromechanical resonators. Sensors and Actuators A: Physical, 2014, 215, 189-196.	4.1	17
9	System-level circuit simulation of nonlinearity in micromechanical resonators. Sensors and Actuators A: Physical, 2012, 186, 15-20.	4.1	15
10	Thermal-Piezoresistive Tuning of the Effective Quality Factor of a Micromechanical Resonator. Physical Review Applied, 2018, 10, .	3.8	14
11	Differential-capacitive-input and differential-piezoresistive-output enhanced transduction of a silicon bulk-mode microelectromechanical resonator. Sensors and Actuators A: Physical, 2014, 210, 41-50.	4.1	12
12	A Wideband LNA Based on Current-Reused CS-CS Topology and Gm-boosting Technique for 5G Application. , 2019, , .		12
13	Piezoresistive Transduction in a Double-Ended Tuning Fork SOI MEMS Resonator for Enhanced Linear Electrical Performance. IEEE Transactions on Electron Devices, 2015, 62, 1596-1602.	3.0	11
14	Phase Noise Reduction in a VHF MEMS-CMOS Oscillator Using Phononic Crystals. IEEE Journal of the Electron Devices Society, 2016, 4, 149-154.	2.1	11
15	Analytical Design of Millimeter-Wave 100-nm GaN-on-Si MMIC Switches Using FET-Based Resonators and Coupling Matrix Method. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3307-3318.	4.6	11
16	Reversed Nonlinear Oscillations in Lamé-Mode Single-Crystal-Silicon Microresonators. IEEE Electron Device Letters, 2012, 33, 1492-1494.	3.9	10
17	A 15–38 GHz Vector-Summing Phase-Shifter With $360^\circ$ Phase-Shifting Range Using Improved I/Q Generator. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3199-3203.	3.0	10
18	Bandpass Filter With Ultra-Wide Upper Stopband on GaAs IPD Technology. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 389-393.	3.0	7

#	ARTICLE	IF	CITATIONS
19	Novel Wideband Bandpass Filters Using Double-Sided Quasi-SSPPs Transmission Line. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3174-3178.	3.0	5
20	Active electronic cancellation of nonlinearity in a High-Q longitudinal-mode silicon resonator by current biasing. , 2014, , .		4
21	Switchable Lamb wave delay lines using AlGaIn/GaN heterostructure. , 2017, , .		4
22	A 24-30GHz Asymmetric SPDT Switch for 5G Millimeter-Wave Front-End. , 2020, , .		4
23	Simulating Nonlinearity in MEMS Resonators by a Charge Controlled Capacitor. Procedia Engineering, 2011, 25, 403-406.	1.2	3
24	A 9.8-30.1 GHz CMOS low-noise amplifier with a 3.2-dB noise figure using inductor- and transformer-based gm-boosting techniques. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 586-598.	2.6	3
25	A CMOS Low-Power Variable-Gain LNA Based on Triple Cascoded Common-Source Amplifiers and Forward-Body-Bias Technology. , 2021, , .		3
26	A New Class of Wideband MS-to-MS Vialess Vertical Transition With Function of Filtering Performance. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1877-1881.	3.0	3
27	Compact Balanced Bandpass Filter With Wideband Common Mode Suppression. , 2020, , .		3
28	Odd-Element Half-Wave-Rectification Superposition Technique for High-Multiplication Factor Frequency Multipliers Design. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 1871-1882.	5.4	3
29	A Simplified Vector-Sum Phase Shifter Topology With Low Noise Figure and High Voltage Gain. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2022, , 1-9.	3.1	3
30	Material nonlinearity limits on a Lam#x00E9;-mode single crystal bulk resonator. , 2012, , .		2
31	Critical components in 140 GHz communication systems. , 2012, , .		2
32	Lamb wave dispersion in gallium nitride micromechanical resonators. , 2016, , .		2
33	A wideband filtering microstrip&#x2013;microstrip vialess vertical transition on <scp>CPW MMR</scp>. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22567.	1.2	2
34	A Wideband 7.5-29.5 GHz LNA with Constant NF by Using Multistage Noise Matching at High Frequencies. , 2020, , .		2
35	A wide&#x2013;band balanced&#x2013;unbalanced power divider using microstrip&#x2013;slotline&#x2013;SIW transitions. Microwave and Optical Technology Letters, 2022, 64, 110-116.	1.4	2
36	A Ka-Band High-Power Switchable Filtering Power Combiner MMIC in 100-nm GaN-on-Si. IEEE Transactions on Industrial Electronics, 2022, 69, 10467-10477.	7.9	2

#	ARTICLE	IF	CITATIONS
37	A 24-30GHz GaN-on-Si Variable Gain Low-Noise Amplifier MMIC. , 2020, , .		2
38	A 22.2-GHz Injection-Locked Frequency Tripler Featuring Dual Injection and 39.4% Locking Range. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3548-3556.	4.6	2
39	Limits to Thermal-Piezoresistive Cooling in Silicon Micromechanical Resonators. Journal of Microelectromechanical Systems, 2020, 29, 677-684.	2.5	1
40	Compact balanced bandpass filter based on dual-sided parallel-strip line. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22586.	1.2	1
41	A 28 GHz GaN HEMT quasi-circulator with high isolation and high power-handling capability. Microwave and Optical Technology Letters, 2022, 64, 72-76.	1.4	1
42	A PLL Synthesizer for 5G mmW Transceiver. , 2020, , .		1
43	A 21-41 GHz Compact Wideband Low-Noise Amplifier Based on Transformer-Feedback Technique in 65-nm CMOS. , 2020, , .		1
44	A 3.5GHz CMOS Transceiver for Sub-6GHz and Mm-Wave Co-Existed 5G Communication Systems. , 2021, , .		1
45	A Millimeter-Wave Variable-Gain Power Amplifier With $P_{1dB}$ Improvement Technique in 65-nm CMOS. IEEE Microwave and Wireless Components Letters, 2022, 32, 1427-1430.	3.2	1
46	Direct Parameter Extraction for Piezoresistively-sensed MEMS Resonators Embedded in Parasitic Capacitive Feedthrough. Procedia Engineering, 2011, 25, 515-518.	1.2	0
47	Benchmarking the passive differential input technique to shielded GSG probes. , 2012, , .		0
48	A transformer-based injection-locked frequency divider. Microwave and Optical Technology Letters, 2021, 63, 2565-2569.	1.4	0
49	A Broadband dB-linear VGA with third-order interleaving active feedback. , 2020, , .		0
50	A Novel Piezoresistive Transducer for Bulk Mode MEMS Resonator. , 2022, , .		0