

# Tae Wook Kim

## List of Publications by Year in descending order

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28  
papers

487  
citations

687363

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docs citations

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times ranked

512  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Common-Gate Amplifier With Transconductance Nonlinearity Cancellation and Its High-Frequency Analysis Using the Volterra Series. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1461-1469.	4.6	70
2	An 11 b 7 ps Resolution Two-Step Time-to-Digital Converter With 3-D Vernier Space. IEEE Transactions on Circuits and Systems I: Regular Papers, 2014, 61, 2326-2336.	5.4	53
3	Design and Analysis of Swapped Port Coupler and Its Application in a Miniaturized Butler Matrix. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 764-770.	4.6	41
4	A 2.88 mW $9.06$ dBm IIP3 Common-Gate LNA With Dual Cross-Coupled Capacitive Feedback. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1019-1025.	4.6	41
5	A 5.5-mW $9.4$ -dBm IIP3 1.8-dB NF CMOS LNA Employing Multiple Gated Transistors With Capacitance Desensitization. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2529-2537.	4.6	35
6	An IR-UWB CMOS Transceiver for High-Data-Rate, Low-Power, and Short-Range Communication. IEEE Journal of Solid-State Circuits, 2019, 54, 2163-2174.	5.4	34
7	A 1.2 V, 0.87- $3.7$ GHz Wideband Low-Noise Mixer Using a Current Mirror for Multiband Application. IEEE Microwave and Wireless Components Letters, 2012, 22, 91-93.	3.2	29
8	A 0.6-V $4$ dBm IIP3 $LC$ Folded Cascode CMOS LNA With $g_m$ Linearization. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 122-126.	3.0	28
9	Two-Stage Compact Wideband Flat Gain Low-Noise Amplifier Using High-Frequency Feedforward Active Inductor. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4803-4811.	4.6	19
10	A 6.75 mW $12.45$ dBm IIP3 1.76 dB NF 0.9 GHz CMOS LNA Employing Multiple Gated Transistors With Bulk-Bias Control. IEEE Microwave and Wireless Components Letters, 2011, 21, 616-618.	3.2	17
11	Wireless Vital Sign Monitoring Using Penetrating Impulses. IEEE Microwave and Wireless Components Letters, 2017, 27, 94-96.	3.2	17
12	A Time Domain Artificial Intelligence Radar System Using 33-GHz Direct Sampling for Hand Gesture Recognition. IEEE Journal of Solid-State Circuits, 2020, 55, 879-888.	5.4	17
13	A Time-Based Angle-of-Arrival Sensor Using CMOS IR-UWB Transceivers. IEEE Sensors Journal, 2016, 16, 5563-5571.	4.7	14
14	Time-of-Arrival Measurement Using Adaptive CMOS IR-UWB Range Finder With Scalable Resolution. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1605-1615.	5.4	11
15	A CMOS RF Programmable-Gain Amplifier for Digital TV With a $9$ -dBm IIP3 Cross-Coupled Common-Gate LNA. IEEE Transactions on Circuits and Systems II: Express Briefs, 2012, 59, 543-547.	3.0	9
16	Accurate measurement of chest compression depth using impulse-radio ultra-wideband sensor on a mattress. PLoS ONE, 2017, 12, e0183971.	2.5	9
17	A 1.9-mm-Precision 20-GHz Direct-Sampling Receiver Using Time-Extension Method for Indoor Localization. IEEE Journal of Solid-State Circuits, 2017, 52, 1509-1520.	5.4	8
18	An IR-UWB CMOS Transceiver With Extended Pulse Position Modulation. IEEE Journal of Solid-State Circuits, 2022, 57, 2281-2291.	5.4	6

#	ARTICLE	IF	CITATIONS
19	Chest compression depth measurement using IRUWB for CPR (cardiopulmonary resuscitation). , 2010, ,		5
20	Novel Chest Compression Depth Measurement Sensor Using IR-UWB for Improving Quality of Cardiopulmonary Resuscitation. IEEE Sensors Journal, 2017, 17, 3174-3183.	4.7	5
21	A 0.008 $\mu\text{m}^2$ , 35 $\mu\text{W}$ , 8.87 $\mu\text{s}$ resolution CMOS time-to-digital converter using dual-slope architecture. International Journal of Circuit Theory and Applications, 2017, 45, 466-482.	2.0	4
22	Robust Bearing Angle Error Estimation for Mobile Robots With a Gimballed Ultrasonic Seeker. IEEE Transactions on Industrial Electronics, 2018, 65, 5785-5795.	7.9	4
23	An IR-UWB Angle-of-Arrival Sensor IC Using Auto-Toggled Time-to-Digital Converter. IEEE Microwave and Wireless Components Letters, 2019, 29, 749-752.	3.2	4
24	A 0.02 $\text{mm}^2$ embedded temperature sensor with $\pm 0.1\%$ C inaccuracy for self-refresh control in 25nm mobile DRAM. , 2015, , .		3
25	A 0.7 $\text{dB}$ NF, +8.2 $\text{dBm}$ IIP3 CMOS low noise amplifier using frequency selective feedback. International Journal of Circuit Theory and Applications, 2016, 44, 21-37.	2.0	3
26	Analysis of Wake-Up Receivers of Direct RF Detection and tuned-RF Architecture. , 2019, , .		1
27	900MHz CDMA/1.8 GHz PCS/450MHz CDMA RF receiver ICs with a new mixer linearization method and optimization of integrated inductor for single balance mixer LO buffer. Microelectronics Journal, 2010, 41, 851-859.	2.0	0
28	Nerual signal recorder with tunable gain amplifier using low transconductance OTA. , 2010, , .		0