

Kun-You Lin

List of Publications by Year in descending order

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111
papers

2,401
citations

236612

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h-index

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44
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111
all docs

111
docs citations

111
times ranked

1515
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and analysis for a miniature CMOS SPDT switch using body-floating technique to improve power performance. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 31-39.	2.9	182
2	60-GHz Four-Element Phased-Array Transmit/Receive System-in-Package Using Phase Compensation Techniques in 65-nm Flip-Chip CMOS Process. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 743-756.	2.9	177
3	Millimeter-Wave Low Power and Miniature CMOS Multicascode Low-Noise Amplifiers with Noise Reduction Topology. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 3049-3059.	2.9	102
4	A 24-GHz 3.9-dB NF low-noise amplifier using 0.18 μm CMOS technology. IEEE Microwave and Wireless Components Letters, 2005, 15, 448-450.	2.0	85
5	A High-Range-Accuracy and High-Sensitivity Harmonic Radar Using Pulse Pseudorandom Code for Bee Searching. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 666-675.	2.9	83
6	Millimeter-Wave MMIC Passive HEMT Switches Using Traveling-Wave Concept. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 1798-1808.	2.9	82
7	Analysis of Multiconductor Coupled-Line Marchand Baluns for Miniature MMIC Design. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1190-1199.	2.9	80
8	A Modified Wilkinson Power Divider With Isolation Bandwidth Improvement. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2768-2780.	2.9	72
9	A 60GHz Low-Power Six-Port Transceiver for Gigabit Software-Defined Transceiver Applications. , 2007, , .		65
10	A 77-GHz 2T6R Transceiver With Injection-Lock Frequency Sextupler Using 65-nm CMOS for Automotive Radar System Application. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 3031-3048.	2.9	55
11	38-GHz Phased Array Transmitter and Receiver Based on Scalable Phased Array Modules With Endfire Antenna Arrays for 5G MMW Data Links. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 980-999.	2.9	53
12	Design and Analysis for a 60-GHz Low-Noise Amplifier With RF ESD Protection. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 298-305.	2.9	50
13	A 40 GHz Active Balun Using 0.13 μm CMOS Process. IEEE Microwave and Wireless Components Letters, 2009, 19, 164-166.	2.0	44
14	Design and Analysis of a 77.5-GHz Ultra-Broadband Distributed Drain Mixer Using 0.13 μm CMOS Technology. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 562-572.	2.9	43
15	A 1.5-9.6 GHz Monolithic Active Quasi-Circulator in 0.18 μm CMOS Technology. IEEE Microwave and Wireless Components Letters, 2008, 18, 797-799.	2.0	41
16	MMICs in the millimeter-wave regime. IEEE Microwave Magazine, 2009, 10, 99-117.	0.7	41
17	A noise optimization formulation for CMOS low-noise amplifiers with on-chip low-Q inductors. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 1554-1560.	2.9	40
18	Millimeter-wave MMIC single-pole-double-throw passive HEMT switches using impedance-transformation networks. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 1076-1085.	2.9	38

#	ARTICLE	IF	CITATIONS
19	A 50 to 70 GHz Power Amplifier Using 90 nm CMOS Technology. IEEE Microwave and Wireless Components Letters, 2009, 19, 45-47.	2.0	38
20	A 17-35 GHz Broadband, High Efficiency PHEMT Power Amplifier Using Synthesized Transformer Matching Technique. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 112-119.	2.9	37
21	Phase-Delay Cold-FET Pre-Distortion Linearizer for Millimeter-Wave CMOS Power Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4505-4519.	2.9	37
22	Analysis and Design of Bandpass Single-Pole Double-Throw FET Filter-Integrated Switches. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1601-1610.	2.9	36
23	A 4-17 GHz Darlington Cascode Broadband Medium Power Amplifier in 0.18- μm CMOS Technology. IEEE Microwave and Wireless Components Letters, 2010, 20, 43-45.	2.0	33
24	Design and Analysis of Stacked Power Amplifier in Series-Input and Series-Output Configuration. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2802-2812.	2.9	32
25	A K-Band CMOS Distributed Doubler With Current-Reuse Technique. IEEE Microwave and Wireless Components Letters, 2009, 19, 308-310.	2.0	28
26	A 60-GHz Frequency Tripler With Gain and Dynamic-Range Enhancement. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 660-671.	2.9	27
27	A High-Efficiency, Broadband CMOS Power Amplifier for Cognitive Radio Applications. IEEE Transactions on Microwave Theory and Techniques, 2010, , .	2.9	26
28	FET-integrated CPW and the application in filter synthesis design method on traveling-wave switch above 100 GHz. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 2090-2097.	2.9	25
29	A 10-35 GHz Low Power Bulk-Driven Mixer Using 0.13- μm CMOS Process. IEEE Microwave and Wireless Components Letters, 2008, 18, 455-457.	2.0	25
30	Ring-Based Triple-Push VCOs With Wide Continuous Tuning Ranges. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 2173-2183.	2.9	25
31	A low-voltage and variable-gain distributed amplifier for 3.1-10.6 GHz UWB systems. IEEE Microwave and Wireless Components Letters, 2006, 16, 179-181.	2.0	24
32	Analysis and Design of Reduced-Size Marchand Rat-Race Hybrid for Millimeter-Wave Compact Balanced Mixers in 130-nm CMOS Process. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 1966-1977.	2.9	24
33	Design and Analysis of Down-Conversion Gate/Base-Pumped Harmonic Mixers Using Novel Reduced-Size 180 $^\circ$ Hybrid With Different Input Frequencies. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2473-2485.	2.9	23
34	A Compact 60 GHz Integrated Up-Converter Using Miniature Transformer Couplers With 5 dB Conversion Gain. IEEE Microwave and Wireless Components Letters, 2008, 18, 641-643.	2.0	22
35	A Broadband Balanced Distributed Frequency Doubler With a Sharing Collector Line. IEEE Microwave and Wireless Components Letters, 2009, 19, 110-112.	2.0	21
36	A 28-GHz Bidirectional Active Gilbert-Cell Mixer in 90-nm CMOS. IEEE Microwave and Wireless Components Letters, 2021, 31, 473-476.	2.0	21

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37	40-GHz MMIC SPDT and Multiple-Port Bandpass Filter-Integrated Switches. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 2691-2699.	2.9	20
38	Low Insertion-Loss Single-Pole-Double-Throw Reduced-Size Quarter-Wavelength HEMT Bandpass Filter Integrated Switches. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 3028-3038.	2.9	20
39	Signal processing for harmonic pulse radar based on spread spectrum technology. IET Radar, Sonar and Navigation, 2014, 8, 242-250.	0.9	18
40	A π -band High LO-to-RF Isolation Triple Cascode Mixer With Wide IF Bandwidth. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1506-1514.	2.9	18
41	18-26 GHz low-noise amplifiers using 130- and 90-nm bulk CMOS technologies. , 0, , .		16
42	A Ku-band CMOS low-noise amplifier. , 2005, , .		16
43	A 24 GHz low power VCO with transformer feedback. , 2009, , .		16
44	A 22-dBm 24-GHz power amplifier using 0.18- μ m CMOS technology. , 2010, , .		15
45	A Power Bus With Multiple Via Ground Surface Perturbation Lattices for Broadband Noise Isolation: Modeling and Application in RF-SiP. IEEE Transactions on Advanced Packaging, 2010, 33, 582-591.	1.7	15
46	A 22.5-dB gain, 20.1-dBm output power K-band power amplifier in 0.18- μ m CMOS. , 2010, , .		15
47	A 60 GHz variable-gain low-noise amplifier with low phase variation. , 2016, , .		15
48	A W-band GCPW MMIC Diode Tripler. , 2002, , .		14
49	A 14 $\frac{1}{4}$ 23 GHz CMOS MMIC distributed doubler with a 22-dB fundamental rejection. , 2008, , .		14
50	A K-band CMOS low power modified colpitts VCO using transformer feedback. , 2009, , .		14
51	A 68 $\frac{1}{3}$ 83 GHz power amplifier in 90 nm CMOS. , 2009, , .		14
52	A 75.5-to-120.5-GHz, high-gain CMOS low-noise amplifier. , 2012, , .		14
53	A 10.8-GHz CMOS Low-Noise Amplifier Using Parallel-Resonant Inductor. , 2007, , .		13
54	60 GHz Double-Balanced Gate-Pumped Down-Conversion Mixers With a Combined Hybrid on 130 nm CMOS Processes. IEEE Microwave and Wireless Components Letters, 2010, 20, 160-162.	2.0	13

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55	Design and Analysis of Novel Linearization Technique of Cascode Cell in a 60-GHz CMOS Demodulator. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 456-465.	2.9	13
56	Bee Searching Radar With High Transmit-Receive Isolation Using Pulse Pseudorandom Code. IEEE Transactions on Microwave Theory and Techniques, 2016, 64, 4324-4335.	2.9	13
57	A 5.4-mW LNA using 0.35- μ m SiGe BiCMOS technology for 3.1-10.6-GHz UWB wireless receivers. , 0, , .		12
58	A Millimeter-Wave Wideband SPDT Switch with Traveling-Wave Concept Using 0.13-Microm CMOS Process. , 0, , .		11
59	On the stability of millimeter-wave power amplifiers. , 0, , .		10
60	A 40-to-76 GHz Balanced Distributed Doubler in 0.13- μ m CMOS Technology. , 2008, , .		10
61	A Wide Tuning Range Voltage Controlled Oscillator Using Common-Base Configuration and Inductive Feedback. IEEE Microwave and Wireless Components Letters, 2009, 19, 653-655.	2.0	10
62	MM-Wave Integration and Combinations. IEEE Microwave Magazine, 2012, 13, 49-57.	0.7	10
63	A V-band CMOS frequency quadrupler with 3-dBm output power. , 2012, , .		10
64	Millimeter-wave system-on-chip advancement for fusion plasma diagnostics. Review of Scientific Instruments, 2018, 89, 10H108.	0.6	10
65	A 2.655 GHz 3-stage Doherty power amplifier using envelope tracking technique. , 2010, , .		9
66	A 24 GHz CMOS power amplifier with successive IM2 feed-forward IMD3 cancellation. , 2015, , .		8
67	A K-Band High-Gain Linear CMOS Mixer with Current-Bleeding Neutralization Technique. , 2018, , .		8
68	A 71–76 GHz chip set for wireless communication in 65-nm CMOS technology. , 2009, , .		7
69	Development of millimeter-wave CMOS power amplifiers at National Taiwan University. , 2012, , .		7
70	A 60-GHz single-balance gate-pumped down-conversion mixer with reduced-size rat-race hybrid on 130-nm CMOS process. , 2008, , .		6
71	An ultra-low-power CMOS complementary VCO using three-coil transformer feedback. , 2009, , .		6
72	A miniature Q-band CMOS LNA with triple-cascode topology. , 2009, , .		6

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73	Portable 9.4/18.8 GHz harmonic radar system using pulse Pseudorandom code principle. , 2015, , .		6
74	A Compact E- Mode GaAs pHEMT Phase Shifter MMIC for 5G Phased-Array Systems. , 2019, , .		6
75	Millimeter-Wave Integrated Circuits. , 0, , .		6
76	A 60-GHz Single-Chip Transceiver for WPAN Applications. , 2008, , .		5
77	A 50–70 GHz I/Q modulator with improved sideband suppression using HPF/LPF based quadrature power splitter. , 2011, , .		5
78	A 57–64 GHz low-phase-variation variable-gain amplifier. , 2012, , .		5
79	A 27–34 GHz CMOS medium power amplifier with a flat power performance. , 2012, , .		5
80	A high range resolution 9.4/18.8 GHz harmonic radar for bees searching. , 2012, , .		5
81	K-band active antenna integrated with CMOS adaptive-bias power amplifier. , 2015, , .		5
82	Wideband Reconfigurable Power Divider/Combiner in 40-nm CMOS for 5G mmW Beamforming System. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 1410-1422.	2.9	5
83	A 35-50 GHz IQ-Demodulator in 0.13-μm CMOS Technology. , 2007, , .		4
84	A novel ring-based triple-push 0.2-to-34 GHz VCO in 0.13 ¹ / ₄ m CMOS technology. , 2008, , .		4
85	A compact low DC consumption 24-GHz Cascode HEMT VGA. , 2009, , .		4
86	A Wideband, Low-Noise, and High-Resolution Digitally-Controlled Oscillator for SDR Applications. , 2018, , .		4
87	A V-Band MMIC SPDT passive HEMT switch using impedance transformation networks. , 0, , .		3
88	Novel High Robustness RF ESD Protection Circuits Applied to 5.8-GHz GaAs-Based HBT Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 687-698.	2.9	3
89	An active CMOS one-to-four power splitter for 60-GHz phased-array transmitter. , 2012, , .		3
90	A 60 GHz CMOS power amplifier with modified pre-distortion linearizer. , 2013, , .		3

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91	A 190-GHz amplifier with gain-boosting technique in 65-nm CMOS. , 2014, , .		3
92	A Light Weight Transponder for Bee Searching Harmonic Radar. , 2018, , .		3
93	A Dual-Band CMOS Standing-Wave Digitally Controlled Oscillator for Automotive Radars. , 2019, , .		3
94	A High-Gain Continuous Class- F Power Amplifier in 90-nm CMOS for 5G Communication. , 2019, , .		3
95	A 28/39 GHz Dual-Band Power Amplifier Using Optimal Matching Contour in GaAs pHEMT. , 2021, , .		3
96	K-Band monolithic GaAs PHEMT amplifiers. , 0, , .		2
97	A 10.8-mW low-noise amplifier in 0.35- μ m SiGe BiCMOS for UWB wireless receivers. , 0, , .		2
98	40-48 GHz Sub-harmonic Transceiver for High Data-Rate Communication System Applications. , 2008, , .		2
99	A GaAs-based HBT 31-GHz frequency doubler with an on-chip voltage. , 2008, , .		2
100	A Q-band low loss reduced-size filter-integrated SPDT switch using 0.15- μ m MHEMT technology. , 2008, , .		2
101	An X-band MMIC HBT high efficiency power amplifier with lossless feedback technique. , 2016, , .		2
102	A 20 GHz power amplifier with IM3 distortion cancellation by load-split derivative superposition. , 2016, , .		2
103	A 40-nm CMOS V-band single-pole quadruple-throw absorptive switch for phased-array applications. , 2017, , .		2
104	Modularized prototype of 5G mmWave base station system at 38 GHz. , 2018, , .		2
105	Low-Power Low-Noise Amplifiers for UWB Applications. , 2006, , .		1
106	A 60-GHz single-ended-to-differential vector sum phase shifter in CMOS for phased-array receiver. , 2011, , .		1
107	Application of harmonic radar on the research of bees' behavior. , 2016, , .		1
108	A 38-GHz 32-Element Phased-Array Transmitter Based on Scalable 8-Element Phased-Array Modules for 5G MMW Data Links. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
109	A V-band power amplifier in 0.13-um CMOS (invited paper). , 2008, , .		0
110	Design considerations for radio frequency 3DICs. , 2012, , .		0
111	Modified Binomial Power Distribution Beamformer for Switched-Beam Circular Array. , 2020, , .		0