

# Liang Wu

## List of Publications by Year in descending order

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38  
papers

612  
citations

623734

14  
h-index

794594

19  
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39  
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39  
docs citations

39  
times ranked

679  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Characterization of Active Matrix LED Microdisplays With Embedded Visible Light Communication Transmitter. <i>Journal of Lightwave Technology</i> , 2016, 34, 3449-3457.	4.6	55
2	A 4-Path 42.8-to-49.5 GHz LO Generation With Automatic Phase Tuning for 60 GHz Phased-Array Receivers. <i>IEEE Journal of Solid-State Circuits</i> , 2013, 48, 2309-2322.	5.4	53
3	Visible Light Communication System Design and Link Budget Analysis. <i>Journal of Lightwave Technology</i> , 2015, 33, 5201-5209.	4.6	46
4	A Fully Integrated IEEE 802.15.7 Visible Light Communication Transmitter With On-Chip 8-W 85% Efficiency Boost LED Driver. <i>Journal of Lightwave Technology</i> , 2016, 34, 2419-2430.	4.6	45
5	Towards indoor localization using Visible Light Communication for consumer electronic devices. , 2014, , .		41
6	Design and Analysis of CMOS LNAs with Transformer Feedback for Wideband Input Matching and Noise Cancellation. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2017, 64, 1626-1635.	5.4	37
7	A 4-Element 60-GHz CMOS Phased-Array Receiver With Beamforming Calibration. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2017, 64, 642-652.	5.4	35
8	A Spur-and-Phase-Noise-Filtering Technique for Inductor-Less Fractional-N Injection-Locked PLLs. <i>IEEE Journal of Solid-State Circuits</i> , 2017, 52, 2128-2140.	5.4	31
9	A Wideband CMOS LNA Using Transformer-Based Input Matching and Pole-Tuning Technique. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2021, 69, 3335-3347.	4.6	29
10	Analysis and Design of a 0.6 V 2.2 mW 58.5-to-72.9 GHz Divide-by-4 Injection-Locked Frequency Divider With Harmonic Boosting. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2013, 60, 2001-2008.	5.4	28
11	A 312-GHz CMOS Injection-Locked Radiator With Chip-and-Package Distributed Antenna. <i>IEEE Journal of Solid-State Circuits</i> , 2017, 52, 2920-2933.	5.4	25
12	A 7.2-27.3 GHz CMOS LNA With 3.51 $\hat{\pm}$ 0.21 dB Noise Figure Using Multistage Noise Matching Technique. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2022, 70, 74-84.	4.6	21
13	A 49-to-62 GHz Quadrature VCO With Bimodal Enhanced-Magnetic-Tuning Technique. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2014, 61, 3025-3033.	5.4	16
14	A V-Band CMOS VCO With Digitally-Controlled Inductor for Frequency Tuning. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2018, 65, 979-983.	3.0	16
15	E-Band Multi-Phase LC Oscillators With Rotated-Phase-Tuning Using Implicit Phase Shifters. <i>IEEE Journal of Solid-State Circuits</i> , 2018, 53, 2560-2571.	5.4	14
16	A 41-mW 30-Gb/s CMOS optical receiver with digitally-tunable cascaded equalization. , 2014, , .		12
17	A 3-mW 25-Gb/s CMOS transimpedance amplifier with fully integrated low-dropout regulator for 100GbE systems. , 2014, , .		12
18	A 0.9-5.8-GHz Software-Defined Receiver RF Front-End With Transformer-Based Current-Gain Boosting and Harmonic Rejection Calibration. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2017, 25, 2371-2382.	3.1	12

#	ARTICLE	IF	CITATIONS
19	A 24-GHz and 60-GHz dual-band standing-wave VCO in 0.13 $\mu$ m CMOS process. , 2010, , .		11
20	A fully integrated IEEE 802.15.7 visible light communication transmitter with on-chip 8-W 85% efficiency boost LED driver. , 2015, , .		10
21	Design and implementation of IEEE 802.15.7 VLC PHY-I transceiver. , 2014, , .		8
22	A 23-mW 30-Gb/s digitally programmable limiting amplifier for 100GbE optical receivers. , 2014, , .		8
23	A 49-to-62GHz CMOS quadrature VCO with bimodal enhanced magnetic tuning. , 2012, , .		7
24	An inductor-less fractional-N injection-locked PLL with a spur-and-phase-noise filtering technique. , 2016, , .		6
25	A 4-path 42.8-to-49.5GHz LO generation with automatic phase tuning for 60GHz phased-array receivers. , 2012, , .		5
26	An AMLED microdisplay driver SoC with built-in 1.25-Mb/s VLC transmitter. , 2015, , .		5
27	A <sc>30 $\mu$ GHz</sc> low $\alpha$ power <sc>CMOS LNA</sc> for <sc>5G</sc> communication systems. Microwave and Optical Technology Letters, 2021, 63, 746-752.	1.4	5
28	Link budget analysis for visible light communication systems. , 2015, , .		3
29	Phase Shift Techniques for Improving Varactor-Less QVCO Based on Rotated-Phase-Tuning. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 279-283.	3.0	3
30	A 9.8 $\mu$ W 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
31	A 0.6V 2.2mW 58-to-73GHz divide-by-4 injection-locked frequency divider. , 2012, , .		2
32	A Transformer-based Injection-Locked Frequency Divider in 65-nm CMOS Technology. , 2019, , .		2
33	A Wideband 7.5-29.5 GHz LNA with Constant NF by Using Multistage Noise Matching at High Frequencies. , 2020, , .		2
34	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
35	Recent advancements in visible light communication modulator SoCs. , 2015, , .		1
36	A 21-41 GHz Compact Wideband Low-Noise Amplifier Based on Transformer-Feedback Technique in 65-nm CMOS. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
37	A transformer-based injection-locked frequency divider. Microwave and Optical Technology Letters, 2021, 63, 2565-2569.	1.4	0
38	A 5.91-8.94GHz phase-locked loop in 65nm CMOS for 5G applications. Microwave and Optical Technology Letters, 0, , .	1.4	0