Hsin-Chia Lu

List of Publications by Year
in descending order

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82 papers	1,028 citations	516215 16 h-index	476904 29 g-index
82 all docs	82 docs citations	82 times ranked	871 citing authors

#	Article	IF	Citations
1	A 28 GHz High Slope Automatic Switching Power Detector System Using PMOS Current-Steering Variable Gain Amplifier and Schmitt Trigger. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3134-3138.	2.2	3
2	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
3	A V-Band High Gain Sub-Harmonic Down-Conversion Mixer Using PMOS Cross Couple Pair to Implement Negative Impedance and Current-Bleeding Technique. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2765-2769.	2.2	6
4	A Low-Power Digital Variable-Gain V-Band Receiver Using Current-reused Technique with Embedded Power Detectors. , 2021, , .		0
5	Frequency diversity transmitting array for stable power reception under rotation in 2D far-field wireless power transmission. , 2021, , .		0
6	A 38-GHz 32-Element Phased-Array Transmitter Based on Scalable 8-Element Phased-Array Modules for 5G MMW Data Links. , 2020, , .		1
7	AV-Band Ultra Low Power Sub-HarmonicI/QDown-Conversion Mixer Using Current Re-Used Technique. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2893-2897.	2.2	4
8	On-chip Slot Ring Antenna Integrated with Voltage Controlled Oscillator at 140 GHz in 40nm CMOS Technology. , 2019, , .		3
9	A V -Band Low-Power Digital Variable-Gain Low-Noise Amplifier Using Current-Reused Technique With Stable Matching and Maintained OP1dB. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 4404-4417.	2.9	16
10	A K-band Temperature Compensated Transmitted Power Detector. , 2019, , .		1
11	LTCC Dielectric Constant and Loss Tangent Extraction by Thru-Line Method in Stripline. , 2019, , .		3
12	Smart RF Integrated Circuits: A Millimeter-Wave Gigabit Transceiver with Digitally-Enabled Built-In Self-Healing and Auto-Switching Functions. IEEE Microwave Magazine, 2019, 20, 28-37.	0.7	1
13	A Low Power Wideband V-Band LNA Using Double-Transformer-Coupling Technique and T-Type Matching in 90nm CMOS. , 2019, , .		1
14	36â€“40 GHz Tx/Rx Beamformers for 5G mm-Wave Phased-Array. , 2018, , .		8
15	A 38 GHz Low Power Variable Gain LNA Using PMOS Current-Steering Device and G<inf>m</inf>-Boost Technique. , 2018, , .		9
16	Dielectric Constant Measurement Using Metallized Slot Substrate Integrated Waveguide at PCB Process. , 2018, , .		1
17	A 28-GHz Low-Power Vector-Sum Phase Shifter Using Biphase Modulator and Current Reused Technique. IEEE Microwave and Wireless Components Letters, 2018, 28, 1014-1016.	2.0	25
18	An E-Band Gate-Pump SSB Mixer for Vital Signs Doppler Radar. , 2018, , .		1

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19	Modularized prototype of 5G mmWave base station system at 38 GHz. , 2018, , .		2
20	A D-band wide tuning range VCO using switching transformer. , 2017, , .		12
21	A 38-GHz Up-conversion sub-harmonic mixer with buffer amplifier in 65-nm CMOS process. , 2017, , .		6
22	A K -Band High-Efficiency VCO Using Current Reused Technique. IEEE Microwave and Wireless Components Letters, 2017, 27, 1134-1136.	2.0	27
23	A V-band high linearity sub-harmonic I/Q demodulator using transformer coupling. , 2017, , .		2
24	Chip Last Fan-Out Packaging for Millimeter Wave Application. , 2016, , .		13
25	A K-band high-gain down-converter mixer using cross couple pair active load. , 2016, , .		12
26	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
27	A K-band power amplifier with parasitic diode linearizer in 0.18-Î¼m CMOS process using 1.8-V supply voltage. , 2016, , .		4
28	A 0.54-0.55 THz 2×4 coherent source array with EIRP of 24.4 dBm in 65nm CMOS technology. , 2015, , .		26
29	Phase and time switching modulations for multi-point wireless power grid to realize stable power reception under rotational misalignment. , 2015, , .		3
30	On-chip bi-semicircular slot antenna at 550 GHz for 2×4 coherent source array in 65nm CMOS technology. , 2015, , .		0
31	Broadband Low Phase Error Phase Shifter Using High-Pass Network With a Coupled Line Section. IEEE Microwave and Wireless Components Letters, 2015, 25, 775-777.	2.0	11
32	Low loss transmission lines on flexible COP substrate by standard lamination process. , 2014, , .		3
33	Antenna with switchable linear polarization for 60 GHz. , 2014, , .		1
34	Broadband Differential Phase-Shifter Design Using Bridged T-Type Bandpass Network. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 1470-1479.	2.9	9
35	Heat dissipation analysis and design of a board-level phased-array transmitter module for 60-GHz communication. Applied Thermal Engineering, 2013, 53, 78-88.	3.0	13
36	A K-band compact fully integrated transformer power amplifier in 0.18-μm CMOS. , 2013, , .		8

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37	Magnetic Near-Field Probes With High-Pass and Notch Filters for Electric Field Suppression. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2460-2470.	2.9	78
38	Space Difference Magnetic Near-Field Probe With Spatial Resolution Improvement. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 4233-4244.	2.9	50
39	Performance Comparison of Flip-Chip-Assembled 5-GHz 0.18-$mu{m m}$ CMOS Power Amplifiers on Different Packaging Substrates. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2013, 3, 2014-2021.	1.4	3
40	Embedded end-fire monopole antenna in low temperature cofired ceramic for 60 GHz. , 2013, , .		1
41	Ultra broad band CMOS balanced amplifiers using quadrature power splitters on glass integrated passive device (GIPD) and LTCC with flip chip interconnects for SiP integration. , 2012, , .		10
42	Phase shifters based on surface mount phase leading bandpass unit cells using low temperature cofired ceramic(LTCC). , 2012, , .		2
43	Parasitic-Insensitive Linearization Methods for 60-GHz 90-nm CMOS LNAs. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2512-2523.	2.9	33
44	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
45	Flip-Chip-Assembled W-Band CMOS Chip Modules on Ceramic Integrated Passive Device With Transition Compensation for Millimeter-Wave System-in-Package Integration. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 766-777.	2.9	41
46	Improvement of the Phase Shifter in 90^{circ} Power Splitter for UWB Applications. IEEE Microwave and Wireless Components Letters, 2012, 22, 621-623.	2.0	19
47	A new doubly balanced sub-harmonically miniature mixer using dual Marchand balun in CMOS 0.18-µm technology. , 2012, , .		0
48	Design and implementation of A 24-/60-GHz dual-band monopole meander-line planar CMOS antenna. Microwave and Optical Technology Letters, 2012, 54, 1731-1737.	0.9	4
49	Design and implementation of a high-performance 60-GHz CMOS slot antenna. Microwave and Optical Technology Letters, 2012, 54, 2061-2065.	0.9	1
50	A Fully SiP Integrated V-Band Butler Matrix End-Fire Beam-Switching Transmitter Using Flip-Chip Assembled CMOS Chips on LTCC. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 1424-1436.	2.9	26
51	Electric field coupling suppression using via fences for magnetic near-field shielded-loop coil probes in low temperature co-fired ceramics. , 2011, , .		15
52	LTCC Layer-to-Layer Misalignment-Tolerant Coupled Inductors and Their Application to Bandpass Filter and Helical Inductors. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2011, 1, 1608-1615.	1.4	14
53	Dual-band CRLH branch-line coupler in LTCC by lump elements with parasite control. , 2010, , .		3
54	LTCC Spiral Inductor Synthesis and Optimization With Measurement Verification. IEEE Transactions on Advanced Packaging, 2010, 33, 160-168.	1.7	17

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55	W-band flip-chip assembled CMOS amplifier with transition compensation network for SiP integration. , 2010, , .		3
56	Lump devices mapping between designer's schematic and layout extracted schematic in microwave frequency. , 2010, , .		0
57	Coupling coefficient improvement for inductor coupled vertical interconnect in 3D IC die stacking. , 2009, , .		1
58	Transition characterization using TRL calibration method with unequal “R” calibrators. , 2009, , .		1
59	LTCC layer-to-layer misalignment resistant coupled inductor and bandpass filter. , 2009, , .		2
60	MMICs in the millimeter-wave regime. IEEE Microwave Magazine, 2009, 10, 99-117.	0.7	41
61	2.4 GHz low-pass filters with harmonic suppression using integrated passive device process. , 2009, , .		3
62	LTCC spiral inductor modeling, synthesis, and optimization. , 2008, , .		3
63	40-48 GHz Sub-harmonic Transceiver for High Data-Rate Communication System Applications. , 2008, , .		2
64	Schematic extraction from layout of microwave multi-layer circuits. , 2008, , .		0
65	Variability-aware lTCC spiral inductor synthesis. , 2008, , .		0
66	A dual-mode rectangular ring bandpass filter with transmission zeros on LTCC. , 2008, , .		1
67	Unequal Line (uL) Calibrator Input Mismatch Correction for TRuL calibration method. , 2007, , .		10
68	The thru-reflection-unequal-line (TRuL) calibration method with asymmetric R calibrator for multi-port scattering matrix measurement. , 2006, , .		4
69	Phase and Amplitude Responses of Narrowband Optical Filter Measured by Microwave Network Analyzer. Journal of Lightwave Technology, 2006, 24, 5075-5081.	2.7	4
70	Capacitor and coupled inductor with high process tolerance in LTCC. , 2006, , .		2
71	Multiport scattering matrix measurement using a reduced-port network analyzer. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 1525-1533.	2.9	50
72	Port reduction methods for scattering matrix measurement of an n-port network. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 959-968.	2.9	43

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73	Microwave diversity imaging using six-port reflectometer. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 84-87.	2.9	13
74	Microwave diversity imaging using six-port reflectometer. , 0, , .		0
75	Antenna gain and scattering measurement using reflective three-antenna method. , 0, , .		5
76	Multi-port scattering matrix measurement using a reduced-port network analyzer. , 0, , .		1
77	A quasi-monostatic reflective three-antenna method for antenna gain and scattering measurement. , 0, , .		1
78	Two methods for scattering matrix measurement of an n-port network. , 0, , .		0
79	Antenna polarimetric calibration using multi-mode TRL calibration method and its extension. , 0, , .		0
80	Antenna polarimttric calibration using multi-mode TRL calibration method and its extension. , 0, , .		0
81	The Analysis of Relation between Q-factor and Phase Noise by Using Substrate-integrated Waveguide Cavity Oscillators. , 0, , .		0
82	The thru-reflection-unequal-line (TRuL) calibration method for scattering matrix measurement of multi-port networks. , 0, , .		1