

Shey-Shi Lu

List of Publications by Year in descending order

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197
papers

2,345
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41
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199
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199
docs citations

199
times ranked

1670
citing authors

#	ARTICLE	IF	CITATIONS
1	A 2.17-dB NF 5-GHz-band monolithic CMOS LNA with 10-mW DC power consumption. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 813-824.	2.9	143
2	Analysis and Design of a CMOS UWB LNA With Dual-RLC-Branch Wideband Input Matching Network. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 287-296.	2.9	142
3	A Self-Powered CMOS Reconfigurable Multi-Sensor SoC for Biomedical Applications. IEEE Journal of Solid-State Circuits, 2014, 49, 851-866.	3.5	108
4	Analysis and Design of a 1.6-28-GHz Compact Wideband LNA in 90-nm CMOS Using a π -Match Input Network. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 2092-2104.	2.9	107
5	A Passive Inertial Switch Using MWCNT-Hydrogel Composite With Wireless Interrogation Capability. Journal of Microelectromechanical Systems, 2013, 22, 646-654.	1.7	81
6	Micromachined CMOS LNA and VCO by CMOS-compatible ICP deep trench technology. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 580-588.	2.9	79
7	Design and Analysis of a 21-29-GHz Ultra-Wideband Receiver Front-End in 0.18- μm CMOS Technology. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 2590-2604.	2.9	65
8	3-10-GHz Ultra-Wideband Low-Noise Amplifier Utilizing Miller Effect and Inductive Shunt-Feedback Technique. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1832-1843.	2.9	59
9	A Portable Micro Gas Chromatography System for Lung Cancer Associated Volatile Organic Compound Detection. IEEE Journal of Solid-State Circuits, 2016, 51, 259-272.	3.5	58
10	A Compact Wideband CMOS Low-Noise Amplifier Using Shunt Resistive-Feedback and Series Inductive-Peaking Techniques. IEEE Microwave and Wireless Components Letters, 2007, 17, 616-618.	2.0	57
11	A 0.5-V Biomedical System-on-a-Chip for Intrabody Communication System. IEEE Transactions on Industrial Electronics, 2011, 58, 690-699.	5.2	46
12	Ga _{0.51} In _{0.49} P/In _{0.15} Ga _{0.85} As/GaAs pseudomorphic doped-channel FET with high-current density and high-breakdown voltage. IEEE Electron Device Letters, 1997, 18, 150-153.	2.2	44
13	A Wireless Bio-MEMS Sensor for C-Reactive Protein Detection Based on Nanomechanics. IEEE Transactions on Biomedical Engineering, 2009, 56, 462-470.	2.5	43
14	Analysis and Design of CMOS Distributed Amplifier Using Inductively Peaking Cascaded Gain Cell for UWB Systems. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 2513-2524.	2.9	41
15	Pain Control on Demand Based on Pulsed Radio-Frequency Stimulation of the Dorsal Root Ganglion Using a Batteryless Implantable CMOS SoC. IEEE Transactions on Biomedical Circuits and Systems, 2010, 4, 350-359.	2.7	39
16	A CMOS wireless biomolecular sensing system-on-chip based on polysilicon nanowire technology. Lab on a Chip, 2013, 13, 4451.	3.1	38
17	Analysis, design, and optimization of InGaP-GaAs HBT matched-impedance wide-band amplifiers with multiple feedback loops. IEEE Journal of Solid-State Circuits, 2002, 37, 694-701.	3.5	36
18	A CMOS Cantilever-Based Label-Free DNA SoC With Improved Sensitivity for Hepatitis B Virus Detection. IEEE Transactions on Biomedical Circuits and Systems, 2013, 7, 820-831.	2.7	30

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19	High-linearity high-current-drivability $\text{Ga}_{0.51}\text{In}_{0.49}\text{P}/\text{GaAs}$ MISFET using $\text{Ga}_{0.51}\text{In}_{0.49}\text{P}$ airbridge gate structure grown by gsmb. IEEE Electron Device Letters, 1995, 16, 518-520.	2.2	29
20	High-performance $\text{Ga}_{0.51}\text{In}_{0.49}\text{P}/\text{GaAs}$ airbridge gate MISFET's grown by gas-source MBE. IEEE Transactions on Electron Devices, 1997, 44, 921-929.	1.6	29
21	A 0.45-V Low-Power OOK/FSK RF Receiver in 0.18 μm CMOS Technology for Implantable Medical Applications. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1123-1130.	3.5	29
22	A 6 GHz 1-V CMOS Direct-Conversion Receiver With an Integrated Quadrature Coupler. IEEE Journal of Solid-State Circuits, 2007, 42, 1963-1975.	3.5	28
23	An ultralow-loss and broadband micromachined RF inductor for RFIC input-matching applications. IEEE Transactions on Electron Devices, 2006, 53, 568-570.	1.6	26
24	A fully integrated wireless CMOS microcantilever lab chip for detection of DNA from Hepatitis B virus (HBV). Sensors and Actuators B: Chemical, 2013, 181, 867-873.	4.0	26
25	A micromachined CMOS distributed amplifier by CMOS compatible ICP deep-trench technology. IEEE Electron Device Letters, 2006, 27, 291-293.	2.2	25
26	An analysis of the anomalous dip in scattering parameter S_{22} of InGaP-GaAs heterojunction bipolar transistors (HBTs). IEEE Transactions on Electron Devices, 2002, 49, 1831-1833.	1.6	24
27	A Millimeter-Wave CMOS Triple-Band Phase-Locked Loop With A Multimode LC-Based ILFD. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1327-1338.	2.9	23
28	A Programmable Edge-Combining DLL With a Current-Splitting Charge Pump for Spur Suppression. IEEE Transactions on Circuits and Systems II: Express Briefs, 2010, 57, 946-950.	2.2	22
29	A Controlled-Release Drug Delivery System on a Chip Using Electrolysis. IEEE Transactions on Industrial Electronics, 2012, 59, 1578-1587.	5.2	21
30	The effect of gate recess profile on device performance of $\text{Ga}_{0.51}\text{In}_{0.49}\text{P}/\text{In}_{0.2}\text{Ga}_{0.8}\text{As}$ doped-channel FET's. IEEE Transactions on Electron Devices, 1999, 46, 48-54.	1.6	20
31	A 2.17 dB NF, 5 GHz band monolithic CMOS LNA with 10 mW DC power consumption. , 0, , .		20
32	A low-power low-phase-noise LC VCO with MEMS Cu inductors. IEEE Microwave and Wireless Components Letters, 2005, 15, 434-436.	2.0	20
33	A 30-GHz Wideband Low-Power CMOS Injection-Locked Frequency Divider for 60-GHz Wireless-LAN. IEEE Microwave and Wireless Components Letters, 2008, 18, 145-147.	2.0	20
34	A Waveform-Dependent Phase-Noise Analysis for Edge-Combining DLL Frequency Multipliers. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 1086-1096.	2.9	20
35	6.3 mW 94 GHz CMOS Down-Conversion Mixer With 11.6 dB Gain and 54 dB LO-RF Isolation. IEEE Microwave and Wireless Components Letters, 2016, 26, 604-606.	2.0	19
36	A 0.6 V, 4.32 mW, 68 GHz Low Phase-Noise VCO With Intrinsic-Tuned Technique in 0.13 μm CMOS. IEEE Microwave and Wireless Components Letters, 2008, 18, 467-469.	2.0	18

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37	A monolithic 5.9-GHz CMOS I/Q direct-down converter utilizing a quadrature coupler and transformer-coupled subharmonic mixers. IEEE Microwave and Wireless Components Letters, 2006, 16, 197-199.	2.0	17
38	A Quantization Noise Pushing Technique for $\Delta\Sigma$ Fractional-N Frequency Synthesizers. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 817-825.	2.9	17
39	A 1.5-mW, 2.4 GHz Quasi-Circulator With High Transmitter-to-Receiver Isolation in CMOS Technology. IEEE Microwave and Wireless Components Letters, 2014, 24, 872-874.	2.0	17
40	A Low-Power CMOS Microfluidic Pump Based on Travelling-Wave Electroosmosis for Diluted Serum Pumping. Scientific Reports, 2019, 9, 14794.	1.6	17
41	A 0.5 V 3.1 mW Fully Monolithic OOK Receiver for Wireless Local Area Sensor Network. , 2005, , .		16
42	A release-on-demand wireless CMOS drug delivery SoC based on electrothermal activation technique. , 2009, , .		16
43	A 2.4/3.5/4.9/5.2/5.7-GHz concurrent multiband low noise amplifier using InGaP/GaAs HBT technology. IEEE Microwave and Wireless Components Letters, 2004, 14, 463-465.	2.0	15
44	CMOS wideband LNA design using integrated passive device. , 2009, , .		15
45	0.5-V 5.6-GHz CMOS Receiver Subsystem. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 329-335.	2.9	15
46	A 5-GHz-Band CMOS Receiver With Low LO Self-Mixing Front End. IEEE Transactions on Circuits and Systems I: Regular Papers, 2009, 56, 705-713.	3.5	15
47	High-current-gain small-offset-voltage In _{0.49} Ga _{0.51} P/GaAs tunneling emitter bipolar transistors grown by gas source molecular beam epitaxy. IEEE Electron Device Letters, 1992, 13, 468-470.	2.2	14
48	A dual-mode truly modular programmable fractional divider based on a 1/1.5 divider cell. IEEE Microwave and Wireless Components Letters, 2005, 15, 754-756.	2.0	14
49	A high quality factor and low power loss micromachined RF bifilar transformer for UWB RFIC applications. IEEE Electron Device Letters, 2006, 27, 684-687.	2.2	14
50	Ultralow-Loss and Broadband Micromachined Transmission Line Inductors for 30-60 GHz CMOS RFIC Applications. IEEE Transactions on Electron Devices, 2007, 54, 2512-2519.	1.6	14
51	An analysis of small-signal substrate resistance effect in deep-submicrometer RF MOSFETs. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 1534-1539.	2.9	13
52	Pain control on demand based on pulsed radio-frequency stimulation of the dorsal root ganglion using a batteryless implantable CMOS SoC. , 2010, , .		13
53	A 5.7 GHz interpolative VCO using InGaP/GaAs HBT technology. IEEE Microwave and Wireless Components Letters, 2002, 12, 37-38.	2.0	12
54	An analysis of small-signal gate-drain resistance effect on RF power MOSFETs. IEEE Transactions on Electron Devices, 2003, 50, 525-528.	1.6	12

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55	A linear regression model with dynamic pulse transit time features for noninvasive blood pressure prediction. , 2016, , .		12
56	A 90-nm CMOS V-Band Low-Power Image-Reject Receiver Front-End With High-Speed Auto-Wake-Up and Gain Controls. IEEE Transactions on Microwave Theory and Techniques, 2016, , 1-9.	2.9	12
57	DC and RF characteristics of E-mode Ga/sub 0.51/In/sub 0.49/P-In/sub 0.15/Ga/sub 0.85/As pseudomorphic HEMTs. IEEE Electron Device Letters, 2003, 24, 132-134.	2.2	11
58	The determination of S-parameters from the poles of voltage-gain transfer function for RF IC design. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 191-199.	0.1	11
59	A Low Phase-Noise 9-GHz CMOS Quadrature-VCO using Novel Source-Follower Coupling Technique. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	11
60	A SiGe low noise amplifier for 2.4/5.2/5.7 GHz WLAN applications. , 0, , .		10
61	Reconfigurable SiGe Low-Noise Amplifiers With Variable Miller Capacitance. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2006, 53, 2567-2577.	0.1	10
62	Micromachined 22â€...GHz PI filter by CMOS compatible ICP deep trench technology. Electronics Letters, 2007, 43, 398.	0.5	10
63	A mm-wave CMOS multimode frequency divider. , 2009, , .		10
64	A hydrogel-based implantable wireless CMOS glucose sensor SoC. , 2012, , .		10
65	High-breakdown-voltage Ga/sub 0.51/In/sub 0.49/P channel MESFET's grown by GSMBE. IEEE Electron Device Letters, 1996, 17, 452-454.	2.2	9
66	Single-voltage-supply operation of Ga/sub 0.51/In/sub 0.49/P/In/sub 0.15/Ga/sub 0.85/As insulated-gate FETs for power application. IEEE Electron Device Letters, 1999, 20, 21-23.	2.2	9
67	An analysis of the kink phenomenon of scattering parameterS22 in RF power mosfets for system-on-chip (SOC) applications. Microwave and Optical Technology Letters, 2003, 36, 371-376.	0.9	9
68	A High-Performance Micromachined RF Monolithic Transformer With Optimized Pattern Ground Shields (OPGS) for UWB RFIC Applications. IEEE Transactions on Electron Devices, 2007, 54, 609-613.	1.6	9
69	Low Noise-Figure $\{m P\}^{\{+\}}$ AA Mesh Inductors for CMOS UWB RFIC Applications. IEEE Transactions on Electron Devices, 2008, 55, 3542-3548.	1.6	9
70	A Single-VCO Fractional-\$\$\$ Frequency Synthesizer for Digital TV Tuners. IEEE Transactions on Industrial Electronics, 2010, 57, 3207-3215.	5.2	9
71	A Fully Integrated Humidity Sensor System-on-Chip Fabricated by Micro-Stamping Technology. Sensors, 2012, 12, 11592-11600.	2.1	9
72	A fully integrated hepatitis B virus DNA detection SoC based on monolithic polysilicon nanowire CMOS process. , 2012, , .		9

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73	A Remotely-Controlled Locomotive IC Driven by Electrolytic Bubbles and Wireless Powering. IEEE Transactions on Biomedical Circuits and Systems, 2014, 8, 787-798.	2.7	9
74	An ultra low phase noise W-band GaAs-based PHEMT MMIC CPW VCO. , 2003, , .		8
75	An Implantable Release-on-Demand CMOS Drug Delivery SoC Using Electrothermal Activation Technique. ACM Journal on Emerging Technologies in Computing Systems, 2012, 8, 1-22.	1.8	8
76	A Self-Sustained Wireless Multi-Sensor Platform Integrated with Printable Organic Sensors for Indoor Environmental Monitoring. Sensors, 2017, 17, 715.	2.1	8
77	Non-Invasive Drosophila ECG Recording by Using Eutectic Gallium-Indium Alloy Electrode: A Feasible Tool for Future Research on the Molecular Mechanisms Involved in Cardiac Arrhythmia. PLoS ONE, 2014, 9, e104543.	1.1	8
78	Ga _{0.51} In _{0.49} P/In _x Ga _{1-x} As/GaAs lattice-matched and strained doped-channel field-effect transistors grown by gas source molecular beam epitaxy. Journal of Applied Physics, 1999, 85, 2197-2201.	1.1	7
79	Temperature-dependence of noise figure of monolithic RF transformers on a thin (20 /spl mu/m) silicon substrate. IEEE Electron Device Letters, 2005, 26, 208-211.	2.2	7
80	A 2.1 to 6 GHz Tunable-band LNA With Adaptive Frequency Responses by Transistor Size Scaling. IEEE Microwave and Wireless Components Letters, 2010, 20, 346-348.	2.0	7
81	Analysis and design of on-sensor ECG processors for realtime detection of VF, VT, and PVC. , 2010, , .		7
82	A 4.9-dB NF 53.5–62-GHz micro-machined CMOS wideband LNA with small group-delay-variation. , 2010, , .		7
83	A Smart CMOS Assay SoC for Rapid Blood Screening Test of Risk Prediction. IEEE Transactions on Biomedical Circuits and Systems, 2016, 9, 1-1.	2.7	7
84	Analysis and design of CMOS broadband amplifier with dual feedback loops. , 0, , .		6
85	An Ultra Low Phase Noise W-Band GaAs-Based PHEMT MMIC CPW VCO. , 2003, , .		6
86	Physiology-based diagnosis algorithm for arteriovenous fistula stenosis detection. , 2014, 2014, 4619-22.		6
87	A process for the formation of submicron V-gate by micromachined V-grooves using GaInP/GaAs selective etching technique. IEEE Electron Device Letters, 2001, 22, 420-422.	2.2	5
88	Monolithic InGaP-GaAs HBT receiver front-end with 6â€¦mW DC power consumption for 5â€¦GHz band WLAN applications. Electronics Letters, 2004, 40, 1542.	0.5	5
89	A CMOS transmitter front-end with digital power control for WiMAX 802.16e applications. , 0, , .		5
90	An Analysis of Perfect-Magnetic-Coupling Ultra-Low-Loss Micromachined SMIS RF Transformers for RFIC Applications. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 4256-4267.	2.9	5

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91	An analysis of perfect-magnetic-coupling ultra-low-loss micromachined SMIS RF transformers for RFIC applications. , 0, , .		5
92	Characterization and Modeling of Pattern Ground Shield and Silicon-Substrate Effects on Radio-Frequency Monolithic Bifilar Transformers for Ultra-Wide Band Radio-Frequency Integrated Circuit Applications. Japanese Journal of Applied Physics, 2007, 46, 65-70.	0.8	5
93	A Single-VCO Fractional-N Frequency Synthesizer for Digital TV Tuners. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	5
94	Analysis and Design of On-sensor ECG Processors for Realtime Detection of Cardiac Anomalies Including VF, VT, and PVC. Journal of Signal Processing Systems, 2011, 65, 275-285.	1.4	5
95	Gold Plated Carbon Nanotube Bundle Antenna for Millimeter-Wave Applications. IEEE Electron Device Letters, 2014, 35, 378-380.	2.2	5
96	21.6 A smart CMOS assay SoC for rapid blood screening test of risk prediction. , 2015, , .		5
97	Tongue Pressure Sensing Array Integrated with a System-on-Chip Embedded in a Mandibular Advancement Splint. Micromachines, 2018, 9, 352.	1.4	5
98	Characterization and modeling of small-signal substrate resistance effect in RF CMOS. , 0, , .		4
99	A SiGe micromixer for 2.4/5.2/5.7-GHz multiband WLAN applications. Microwave and Optical Technology Letters, 2004, 41, 343-346.	0.9	4
100	Temperature and Substrate Effects in Monolithic RF Inductors on Silicon With 6- μm -Thick Top Metal for RFIC Applications. IEEE Transactions on Semiconductor Manufacturing, 2006, 19, 316-330.	1.4	4
101	Chip Implementation with a Combined Wireless Temperature Sensor and Reference Devices Based on the DZTC Principle. Sensors, 2011, 11, 10308-10325.	2.1	4
102	18.7 A remotely controlled locomotive IC driven by electrolytic bubbles and wireless powering. , 2014, , .		4
103	A printable conductive polymer CO ₂ sensor with high selectivity to humidity. , 2017, , .		4
104	A Wireless Monitoring System Using a Tunneling Sensor Array in a Smart Oral Appliance for Sleep Apnea Treatment. Sensors, 2017, 17, 2358.	2.1	4
105	Wideband impedance matched GaInP/GaAs HBT Gilbert micromixer with 12 dB gain. , 0, , .		3
106	An implantable integrated SIGE FM transmitter for HRV biotelemetry. , 0, , .		3
107	A GaInP/GaAs HBT micromixer for 2.4/5.2/5.7-GHz multiband WLAN applications. Microwave and Optical Technology Letters, 2004, 43, 87-89.	0.9	3
108	Integration of CNT with TIA into gas sensors. , 2006, , .		3

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109	A Feed-Forward Automatic-Gain Control Amplifier for Biomedical Applications. , 2007, , .		3
110	CMOS RF circuits for 5-GHz BWA. , 2007, , .		3
111	A micromachined V-band CMOS bandpass filter with 2-dB insertion-loss. , 2009, , .		3
112	Design and implementation of intrabody communication hub/alarm unit in IBC platform for fall prevention system. Microwave and Optical Technology Letters, 2014, 56, 2345-2351.	0.9	3
113	A capacitive immunosensor using on-chip electrolytic pumping and magnetic washing techniques for point-of-care applications. , 2014, , .		3
114	21.5 A portable micro gas chromatography system for volatile compounds detection with 15ppb of sensitivity. , 2015, , .		3
115	An 1.1 V 0.1-1.6 GHz tunable-bandwidth elliptic filter with 6 dB linearity improvement by precise zero location control in 40 nm CMOS technology for 5G applications. , 2017, , .		3
116	A Low-Power PEDOT: PSS/EB-PANI for CO ₂ Sensing Material Integrated With a Self-Powered Sensing Platform. IEEE Sensors Journal, 2020, 20, 55-61.	2.4	3
117	Optimization of CMOS-integrated LC oscillators using the genetic algorithm. Microwave and Optical Technology Letters, 2004, 42, 120-124.	0.9	2
118	A 5.2-GHz low-power low-noise amplifier using InGaP-GaAs HBT technology. Microwave and Optical Technology Letters, 2005, 45, 425-427.	0.9	2
119	An analysis of base bias current effect on SiGe HBTs. IEEE Transactions on Electron Devices, 2005, 52, 132-136.	1.6	2
120	A Low Power Fully Integrated Analog Baseband Circuit with Variable Bandwidth for 802.11 a/b/g WLAN. , 0, , .		2
121	A CMOS $\hat{\Delta}_i \hat{\Delta}_j$ Fractional-N Frequency Synthesizer with Quantization Noise Pushing Technique. , 2007, , .		2
122	A Miniature Micro-Machined Millimeter-Wave Bandpass Filter By Complementary Metal-Oxide-Semiconductor Compatible Inductively-Coupled-Plasma Deep-Trench Technology. Japanese Journal of Applied Physics, 2008, 47, 68-73.	0.8	2
123	A 5.79-dB NF, 30-GHz-band monolithic LNA with 10 mW power consumption in standard 0.18- μ m CMOS technology. Microwave and Optical Technology Letters, 2009, 51, 933-937.	0.9	2
124	Authors' Reply [to comments on "A 2.17-dB NF 5-GHz-Band Monolithic CMOS LNA With 10-mW DC Power Consumption"]. IEEE Transactions on Microwave Theory and Techniques, 2009, 57, 2472-2473.	2.9	2
125	A Novel Coplanar-Waveguide Band-Pass Filter Utilizing the Inductor-Capacitor Structure in 0.18 μ m Complementary Metal-Oxide-Semiconductor Technology for Millimeter-Wave Applications. Japanese Journal of Applied Physics, 2012, 51, 034201.	0.8	2
126	Low-phase-noise 0.63-V, 1.7-mW, 11.55-GHz quadrature voltage controlled oscillator with intrinsic-tuned technique in 0.18- μ m complementary metal oxide semiconductor. IET Microwaves, Antennas and Propagation, 2012, 6, 1437-1442.	0.7	2

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127	A 0.8-6 GHz Wideband Receiver Front-End for Software-Defined Radio. Active and Passive Electronic Components, 2013, 2013, 1-6.	0.3	2
128	A cuffless wearable system for real-time cutaneous pressure monitoring with cloud computing assistance. , 2018, , .		2
129	A novel interpretation of transducer power gain by optical analogy. Microwave and Optical Technology Letters, 2001, 31, 124-126.	0.9	1
130	DC-2.1 GHz CMOS multiple feedback transimpedance amplifiers with high dynamic range and linearity. Microwave and Optical Technology Letters, 2003, 36, 60-61.	0.9	1
131	Ga _{0.51} In _{0.49} P/In _x Ga _{1-x} As/GaAs doped-channel FETs (DCFETs) and their applications on monolithic microwave integrated circuits (MMICs). Microwave and Optical Technology Letters, 2003, 39, 56-62.	0.9	1
132	A monolithic 1.57/5.25-GHz concurrent dual-band low-noise amplifier using InGaP/GaAs HBT technology. Microwave and Optical Technology Letters, 2004, 42, 58-60.	0.9	1
133	Small-signal intrinsic base resistance effect on InP-InGaAs, InGaP-GaAs and SiGe HBTs. , 2005, , .		1
134	Variable Inductance Planar Spiral Inductors and CMOS Wideband Amplifiers with Inductive Peaking. , 0, , .		1
135	A Low-Phase-Noise Area-Efficient 3-D LC VCO in Standard 0.18-um CMOS Technology. , 0, , .		1
136	Ultra-Low-Loss and Broadband Micromachined Inductors and Transformers for 30-100 GHz CMOS RFIC Applications by CMOS-Compatible ICP Deep Trench Technology. , 2007, , .		1
137	Design and Microfabrication of Innovated FBAW Filters Based on an OOK Receiver Using 0.18um CMOS Technology. , 2007, , .		1
138	A fully integrated concurrent dual-band low-noise amplifier using InGaP/GaAs HBT technology. Microwave and Optical Technology Letters, 2007, 49, 2763-2765.	0.9	1
139	The RF characteristics of micromachined coplanar waveguide in 0.13 μ m CMOS technology by CMOS compatible ICP dry etching. Microwave and Optical Technology Letters, 2009, 51, 2665-2668.	0.9	1
140	A 2013;6GHz broadband CMOS low-noise amplifier with current reuse topology utilizing a noise-shaping technique. , 2011, , .		1
141	Low-cost and ultra-sensitive poly-Si nanowire biosensor for Hepatitis B Virus (HBV) DNA detection. , 2012, , .		1
142	A 3.1-dB NF, 21.31 dB gain micromachined 3-10 GHz distributed amplifier for UWB systems in 0.18 μ m CMOS technology. Microwave and Optical Technology Letters, 2012, 54, 1163-1167.	0.9	1
143	A low-power millimeter wave VCO by using frequency doubling technique. , 2016, , .		1
144	A solar powered single-inductor dual-output (SIDO) DC-DC boost for power management unit system with high light-load efficiency. , 2017, , .		1

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145	A 473 μ W wireless 16-channel neural recording SoC with RF energy harvester. , 2018, , .		1
146	Trigeminal Neuralgia Alleviation on Demand with an CMOS SoC Using Current-mode Pulsed Radio-Frequency Stimulation. , 2019, , .		1
147	Field-effect pump: liquid dielectrophoresis along a virtual microchannel with source-gate-drain electric fields. Lab on A Chip, 2021, 21, 2372-2382.	3.1	1
148	More on the Impulse Sensitivity Functions of CMOS Differential LC Oscillators. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2011, E94-A, 1671-1681.	0.2	1
149	High-linearity high current drivability GaInP/GaAs MISFET using GaInP airbridge gate structure grown by GSMBE. , 0, , .		0
150	The effect of extrinsic capacitances on the microwave performance of Ga/sub 0.51/In/sub 0.49/P/GaAs MISFETs (0 nm \times 10 nm) grown by GSMBE. , 0, , .		0
151	High-power high-speed Ga/sub 0.51/In/sub 0.49/P/In/sub x/Ga/sub 1-x/As doped-channel FET's. , 0, , .		0
152	Fabrication and simulation of Ga/sub 0.51/In/sub 0.49/P/In/sub x/Ga/sub 1-x/As doped-channel FETs and MMIC amplifiers grown by GSMBE. , 0, , .		0
153	S-band MMIC amplifier using Ga _{0.51} In _{0.49} P/GaAs MISFETS as active devices. Microwave and Optical Technology Letters, 1999, 20, 188-190.	0.9	0
154	Quality factor improvement of on-chip inductors for HIPERLAN RFIC by micromachining. , 0, , .		0
155	Characterization and modeling of small-signal substrate resistance effect in RF CMOS. , 0, , .		0
156	A simple method for the determination of noise coefficientsP,R, andC by two port noise parameters. Microwave and Optical Technology Letters, 2002, 35, 129-132.	0.9	0
157	Theoretical analysis of the anomalous dips of scattering parameterS ₂₂ in deep sub-micrometer MOSFETs. Microwave and Optical Technology Letters, 2003, 36, 193-200.	0.9	0
158	Single-voltage-supply operation of Ga _{0.51} In _{0.49} P/AlGaAs/In _{0.15} Ga _{0.85} As PHEMTs with high-power density. Microwave and Optical Technology Letters, 2003, 39, 196-199.	0.9	0
159	Characterization and modeling of 100 nm RF generic CMOS and 500 nm RF power CMOS. , 0, , .		0
160	Characterization and modeling of the anomalous dip in scattering parameter S ₁₁ / of InGaP/GaAs HBTs. , 0, , .		0
161	Characterization and modeling of size effect on the performances of 0.10 μ m RF MOSFETs for SOC applications. , 0, , .		0
162	Characterization and modeling of size effect on the performances of 0.10 μ m RF MOSFETs for SOC applications. , 0, , .		0

#	ARTICLE	IF	CITATIONS
163	DC, and RF scattering parameters, noise and power characteristics of enhancement-mode In/sub 0.51/Ga/sub 0.49/P/In/sub 0.15/Ga/sub 0.85/As/GaAs power pHEMTs. , 0, , .		0
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