

Jenshan Lin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5955933/publications.pdf>

Version: 2024-02-01

271
papers

9,629
citations

66234

42
h-index

46693

89
g-index

287
all docs

287
docs citations

287
times ranked

6288
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and Optimization of Wireless Charging Drawer Coil for Smart Garments. IEEE Microwave and Wireless Components Letters, 2022, 32, 1227-1230.	2.0	0
2	Fast SARS-CoV-2 virus detection using disposable cartridge strips and a semiconductor-based biosensor platform. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2021, 39, 033202.	0.6	14
3	Embroidered Textile Coils for Wireless Charging of Smart Garments. , 2021, , .		3
4	A Novel Energy Harvesting Circuit for RF Surface Coils in the MRI System. IEEE Transactions on Biomedical Circuits and Systems, 2021, 15, 791-801.	2.7	4
5	Sensing of Life Activities at the Human-Microwave Frontier. IEEE Journal of Microwaves, 2021, 1, 66-78.	4.9	31
6	Alignment-Free Wireless Charging of Smart Garments with Embroidered Coils. Sensors, 2021, 21, 7372.	2.1	4
7	A Supervised Machine Learning Algorithm for Heart-Rate Detection Using Doppler Motion-Sensing Radar. IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology, 2020, 4, 45-51.	2.3	40
8	Reviewâ€”Opportunities for Rapid, Sensitive Detection of Troponin and Cerebral Spinal Fluid Using Semiconductor Sensors. Journal of the Electrochemical Society, 2020, 167, 037507.	1.3	7
9	A Two-Electrode, Double-Pulsed Sensor Readout Circuit for Cardiac Troponin I Measurement. IEEE Transactions on Biomedical Circuits and Systems, 2020, 14, 1362-1370.	2.7	6
10	A fan-shaped plasma reactor for mixing enhancement in a closed chamber. Journal Physics D: Applied Physics, 2020, 53, 22LT01.	1.3	9
11	Design of a 100-GHz Double-Sideband Low-IF CW Doppler Radar Transceiver for Micrometer Mechanical Vibration and Vital Sign Detection. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 2876-2890.	2.9	28
12	High-voltage high-current vertical geometry Ga2O3 rectifiers. , 2020, , .		0
13	Wireless Charging for Smart Garment with Textile-based Receiver Coils. , 2020, , .		4
14	A 100-GHz Double-Sideband Low-IF CW Doppler Radar in 65-nm CMOS for Mechanical Vibration and Biological Vital Sign Detections. , 2019, , .		11
15	A Reconfigurable, Pulse-shaping Potentiometric Readout System for Bio-Sensing Transistors. , 2019, 2019, 5761-5764.		5
16	Respiratory Pattern Recognition of an Adult Bullfrog Using a 100-GHz CW Doppler Radar Transceiver. , 2019, , .		7
17	Switching Behavior and Forward Bias Degradation of 700V, 0.2A, $\text{In}_2\text{Ga}_{2-\text{O}}_{3-\text{O}}$ Vertical Geometry Rectifiers. ECS Journal of Solid State Science and Technology, 2019, 8, Q3028-Q3033.	0.9	18
18	Implementation of a 900ÅV Switching Circuit for High Breakdown Voltage $\text{In}_2\text{Ga}_{2-\text{O}}_{3-\text{O}}$ Schottky Diodes. ECS Journal of Solid State Science and Technology, 2019, 8, Q3229-Q3234.	0.9	18

#	ARTICLE	IF	CITATIONS
19	Fast Cerebrospinal Fluid Detection Using Inexpensive Modular Packaging with Disposable Testing Strips. Journal of the Electrochemical Society, 2019, 166, B708-B712.	1.3	7
20	Authors' Reply to "Respiration Rate Measurement Under 1-D Body Motion Using Single Continuous-Wave Doppler Radar Vital Sign Detection System". IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 2823-2823.	2.9	1
21	(Invited) Comparison of High Voltage, Vertical Geometry Ga ₂ O ₃ Rectifiers with GaN and SiC. ECS Transactions, 2019, 92, 15-24.	0.3	2
22	Achieving electromagnetic compatibility of wireless power transfer antennas inside MRI system. Wireless Power Transfer, 2019, 6, 138-153.	0.9	4
23	Dynamic Switching Characteristics of 1 A Forward Current η -Ga ₂ O ₃ Rectifiers. IEEE Journal of the Electron Devices Society, 2019, 7, 57-61.	1.2	36
24	DC and dynamic switching characteristics of field-plated vertical geometry [beta]-Ga2O3 rectifiers. , 2019, , .		2
25	Noncontact noninvasive monitoring of small laboratory animal's vital sign activities using a 60-GHz radar. , 2019, , 145-170.		0
26	Editors' Choice "Review" Semiconductor Integrated Radar for Sensing Applications. ECS Journal of Solid State Science and Technology, 2018, 7, Q3126-Q3142.	0.9	6
27	Wavelet-Transform-Based Data-Length-Variation Technique for Fast Heart Rate Detection Using 5.8-GHz CW Doppler Radar. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 568-576.	2.9	89
28	Achieving Electromagnetic Compatibility of WPT Antennas for Medical Imaging in MRI. , 2018, , .		2
29	A Supervised Learning Approach for Real Time Vital Sign Radar Harmonics Cancellation. , 2018, , .		6
30	Effect of PIN diode nonlinearity on decoupler circuits in magnetic resonance imaging surface coils. , 2018, 48B, e21398.		3
31	Envelope Detection for an ADC-Relaxed Double-Sideband Low-IF CW Doppler Radar. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5833-5841.	2.9	18
32	Envelope detection for a double-sideband Low IF CW radar. , 2018, , .		6
33	A Review on Recent Progress of Portable Short-Range Noncontact Microwave Radar Systems. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1692-1706.	2.9	265
34	Functional relationship between material property, applied frequency and ozone generation for surface dielectric barrier discharges in atmospheric air. Scientific Reports, 2017, 7, 6388.	1.6	36
35	Noninvasive Measurement and Analysis of Laboratory Rat's Cardiorespiratory Movement. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 574-581.	2.9	23
36	Multi-layer low frequency tissue equivalent phantoms for noninvasive test of shallow implants and evaluating antenna-body interaction. , 2016, 2016, 2353-2356.		5

#	ARTICLE	IF	CITATIONS
37	Harmonically terminated high-power rectifier for wireless power transfer. <i>Wireless Power Transfer</i> , 2016, 3, 75-82.	0.9	2
38	Adaptive harmonics comb notch digital filter for measuring heart rate of laboratory rat using a 60-GHz radar. , 2016, , .		10
39	Design of miniaturized high frequency printed coils for wireless power transfer to biomedical implants. , 2016, , .		2
40	A vital sign radar receiver with integrated A/D converter and dynamic clutter cancellation. , 2016, , .		6
41	3-D wireless charging system with flexible receiver coil alignment. , 2016, , .		14
42	60-GHz CMOS Micro-radar System-in-package for Noncontact and Noninvasive Measurement of Human Vital Signs and Vibrations. , 2016, , 1-33.		0
43	Intermodulation effect of detecting two subjects within antenna beamwidth of a CW Doppler radar. , 2016, , .		1
44	Respiration Rate Measurement Under 1-D Body Motion Using Single Continuous-Wave Doppler Radar Vital Sign Detection System. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016, 64, 1937-1946.	2.9	93
45	Fast Acquisition of Heart Rate in Noncontact Vital Sign Radar Measurement Using Time-Window-Variation Technique. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016, 65, 112-122.	2.4	102
46	Digitally assisted low IF architecture for noncontact vital sign detection. , 2015, , .		11
47	Concurrent Detection of Vibration and Distance Using Unmodulated CW Doppler Vibration Radar With An Adaptive Beam-Steering Antenna. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 2069-2078.	2.9	21
48	In-Vehicles Wireless Charging System for Portable Devices. , 2015, , .		2
49	Non-invasive measurement of laboratory rat's cardiorespiratory movement using a 60-GHz radar and nonlinear Doppler phase modulation. , 2015, , .		6
50	Nonlinearity Modeling of a Chireix Outphasing Power Amplifier. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015, 62, 2898-2907.	3.5	9
51	A 3D resonant wireless charger for a wearable device and a mobile phone. , 2015, , .		10
52	Linearization and Imbalance Correction Techniques for Broadband Outphasing Power Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 2185-2198.	2.9	19
53	Keynote speeches. , 2014, , .		0
54	Wideband LNA and multi-standard frequency synthesizer for reconfigurable radio. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
55	5.8-GHz noncontact vital sign detection radar with respiration harmonics cancellation. , 2014, , .		0
56	Antenna radiation pattern effects on a short-range vibration-detection radar system. , 2014, , .		6
57	Adaptive beam-steering antenna for improved coverage of non-contact vital sign radar detection. , 2014, , .		4
58	Vital sign radars: Past, present, and future. , 2014, , .		9
59	Self-Tuning High-Voltage High-Frequency Switching Power Amplifier for Atmospheric-Based Plasma Sterilization. IEEE Transactions on Plasma Science, 2014, 42, 1861-1869.	0.6	4
60	Characterization of Class-F Power Amplifier With Wide Amplitude and Phase Bandwidth for Outphasing Architecture. IEEE Microwave and Wireless Components Letters, 2014, 24, 188-190.	2.0	7
61	Doppler Radar Noncontact Vital Sign Monitoring. , 2014, , 41-62.		4
62	Design and Analysis of a 60-GHz CMOS Doppler Micro-Radar System-in-Package for Vital-Sign and Vibration Detection. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1649-1659.	2.9	122
63	A Review on Recent Advances in Doppler Radar Sensors for Noncontact Healthcare Monitoring. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2046-2060.	2.9	655
64	Noncontact measurement of cardiopulmonary movements: A review of system architectures and the path to micro-radars. , 2013, , .		2
65	Class-F power amplifier with 80.1% maximum PAE at 2 GHz for cellular base-station applications. , 2013, , .		7
66	Wireless Power Transmission: From Far Field to Near Field. Proceedings of the IEEE, 2013, 101, 1321-1331.	16.4	290
67	An 83-GHz High-Gain SiGe BiCMOS Power Amplifier Using Transmission-Line Current-Combining Technique. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 1557-1569.	2.9	39
68	Vital sign detection using 60-GHz Doppler radar system. , 2013, , .		17
69	A Regulated 3.1â€“10.6 GHz Linear Dualâ€Tuning Differential Ring Oscillator For UWB Applications. Microwave and Optical Technology Letters, 2013, 55, 2384-2389.	0.9	0
70	Respiration harmonics cancellation for Accurate Heart Rate measurement in non-contact vital sign detection. , 2013, , .		41
71	A 36 W Wireless Power Transfer System with 82% Efficiency for LED Lighting Applications. Transactions of the Japan Institute of Electronics Packaging, 2013, 6, 32-37.	0.3	9
72	40-GHz vital sign detection of heartbeat using synchronized motion technique for respiration signal suppression. , 2012, , .		5

#	ARTICLE	IF	CITATIONS
73	A 13.56 MHz rectifier with efficiency-improving harmonic-termination circuit for wireless power transmission systems. , 2012, , .		1
74	Transition to New TCC Chair [TCC Tidbits]. IEEE Microwave Magazine, 2012, 13, 88-90.	0.7	0
75	Non-contact measurement of rotational movement using miniature Doppler radar. , 2012, , .		3
76	Internet Social Networking Groups [TCC Tidbits]. IEEE Microwave Magazine, 2012, 13, 170-185.	0.7	0
77	Correction to "A 9 Linear-Wide-Tuning-Range Quadrature Ring Oscillator in 130 nm CMOS for Non-Contact Vital Sign Radar Application" [Jan 10 34-36]. IEEE Microwave and Wireless Components Letters, 2012, 22, 159-159.	2.0	0
78	VitalTrack: A Doppler radar sensor platform for monitoring activity levels. , 2012, , .		11
79	A 25.6 W 13.56 MHz wireless power transfer system with a 94% efficiency GaN Class-E power amplifier. , 2012, , .		63
80	Expanding RFIC Horizons [From the Guest Editors' Desk]. IEEE Microwave Magazine, 2012, 13, 10-12.	0.7	1
81	A 63W 14MHz Class-E amplifier for wireless power transmission. , 2012, , .		3
82	A flip-chip-packaged and fully integrated 60 GHz CMOS micro-radar sensor for heartbeat and mechanical vibration detections. , 2012, , .		28
83	Antenna Design of 60-GHz Micro-Radar System-In-Package for Noncontact Vital Sign Detection. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1702-1705.	2.4	42
84	A regulated 3.1–10.6 GHz linear dual-tuning differential ring oscillator for UWB applications. , 2011, , .		2
85	Analysis of Detection Methods of RF Vibrometer for Complex Motion Measurement. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 3556-3566.	2.9	24
86	Two-dimensional noncontact vital sign detection using Doppler radar array approach. , 2011, , .		4
87	An 80 GHz High Gain Double-Balanced Active Up-Conversion Mixer Using 0.18 μm SiGe BiCMOS Technology. IEEE Microwave and Wireless Components Letters, 2011, 21, 326-328.	2.0	20
88	Wireless Energy Transfer and Conversion [TCC Tidbits]. IEEE Microwave Magazine, 2011, 12, 126-139.	0.7	0
89	High efficiency midrange wireless power transfer system. , 2011, , .		36
90	A Beam-Steering Broadband Microstrip Antenna for Noncontact Vital Sign Detection. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 235-238.	2.4	16

#	ARTICLE	IF	CITATIONS
91	TCC Updates [TCC Tidbits]. IEEE Microwave Magazine, 2011, 12, 156-158.	0.7	0
92	New Technical Committee in Our Society [TCC Tidbits]. IEEE Microwave Magazine, 2011, 12, 134-136.	0.7	0
93	Linking Technical Activities and Chapter Activities [TCC Tidbits]. IEEE Microwave Magazine, 2011, 12, 74-76.	0.7	1
94	Advances in Hydrogen Gas Sensor Technology and Implementation in Wireless Sensor Networks. , 2011, , 97-130.		0
95	Recent Advances in Wide-Bandgap Semiconductor Biological and Gas Sensors. , 2011, , 43-96.		3
96	Detection of vitellogenin, an endocrine disrupter biomarker, using AlGaIn/GaN high electron mobility transistors. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 2486-2488.	0.8	5
97	Wavelength division sensing RF vibrometer. , 2011, , .		1
98	Low-power 100â€¦GHz shunt-peaked regenerative frequency divider using 0.18â€¦µm SiGe BiCMOS. Electronics Letters, 2011, 47, 804-805.	0.5	1
99	Compact low-cost high-sensitivity CMOS radar-on-chip integration for security applications. , 2010, , .		0
100	Emerging Technologies and Applications [TCC Tidbits. IEEE Microwave Magazine, 2010, 11, 121-122.	0.7	0
101	New Challenges and New Opportunities! [TCC Tidbits. IEEE Microwave Magazine, 2010, 11, 118-118.	0.7	0
102	MTT Members: We'd Like to Keep You Busy! [TCC Tidbits. IEEE Microwave Magazine, 2010, 11, 122-123.	0.7	0
103	RF and Microwave Technologies in Japan [TCC Tidbits. IEEE Microwave Magazine, 2010, 11, 100-101.	0.7	0
104	Recent advances in wide bandgap semiconductor biological and gas sensors. Progress in Materials Science, 2010, 55, 1-59.	16.0	247
105	Accurate Doppler Radar Noncontact Vital Sign Detection Using the RELAX Algorithm. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 687-695.	2.4	120
106	Instrument-Based Noncontact Doppler Radar Vital Sign Detection System Using Heterodyne Digital Quadrature Demodulation Architecture. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 1580-1588.	2.4	153
107	A Loosely Coupled Planar Wireless Power Transfer System Supporting Multiple Receivers. Advances in Power Electronics, 2010, 2010, 1-13.	0.8	13
108	An injection-locked detector for concurrent spectrum and vital sign sensing. , 2010, , .		7

#	ARTICLE	IF	CITATIONS
109	21â€¦dB gain 87â€¦GHz low-noise amplifier using 0.18â€¦[micro sign]m SiGe BiCMOS. Electronics Letters, 2010, 46, 332.	0.5	6
110	Design of a 3-D Fractal Heatsink Antenna. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 1061-1064.	2.4	39
111	A Low-Power Linear SiGe BiCMOS Low-Noise Amplifier for Millimeter-Wave Active Imaging. IEEE Microwave and Wireless Components Letters, 2010, 20, 103-105.	2.0	40
112	High-Sensitivity Software-Configurable 5.8-GHz Radar Sensor Receiver Chip in 0.13- μ m CMOS for Noncontact Vital Sign Detection. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1410-1419.	2.9	105
113	A 68-82 GHz integrated wideband linear receiver using 0.18 μ m SiGe BiCMOS. , 2010, , .		8
114	Wireless Detection System for Glucose and pH Sensing in Exhaled Breath Condensate Using AlGaIn/GaN High Electron Mobility Transistors. IEEE Sensors Journal, 2010, 10, 64-70.	2.4	42
115	A 1â€“25 GHz GaN HEMT MMIC Low-Noise Amplifier. IEEE Microwave and Wireless Components Letters, 2010, 20, 563-565.	2.0	54
116	A Novel Vital-Sign Sensor Based on a Self-Injection-Locked Oscillator. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 4112-4120.	2.9	106
117	A wireless power station for laptop computers. , 2010, , .		44
118	A 1â€“9 GHz Linear-Wide-Tuning-Range Quadrature Ring Oscillator in 130 nm CMOS for Non-Contact Vital Sign Radar Application. IEEE Microwave and Wireless Components Letters, 2010, 20, 34-36.	2.0	68
119	Method of Load/Fault Detection for Loosely Coupled Planar Wireless Power Transfer System With Power Delivery Tracking. IEEE Transactions on Industrial Electronics, 2010, 57, 1478-1486.	5.2	72
120	A W-Band Highly Linear SiGe BiCMOS Double-Balanced Active Up-Conversion Mixer Using Multi-Tanh Triplet Technique. IEEE Microwave and Wireless Components Letters, 2010, 20, 220-222.	2.0	18
121	Effects of I/Q mismatch on measurement of periodic movement using a Doppler radar sensor. , 2010, , .		22
122	Ka-band quadrature Doppler radar system with sub-millimeter resolution and sensitivity in measuring periodic movement. , 2010, , .		2
123	Noise analysis for noncontact vital sign detectors. , 2010, , .		1
124	Verification of a non-contact vital sign monitoring system using an infant simulator. , 2009, 2009, 4836-9.		23
125	System level integration of handheld wireless non-contact vital sign detectors. , 2009, , .		2
126	Doppler radar non-contact measurement of rotational movement in both macro- and micro- scales. , 2009, , .		3

#	ARTICLE	IF	CITATIONS
127	190-nm excimer laser drilling of glass slices: Dependence of drilling rate and via hole shape on the diameter of the via hole. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, L42.	1.3	1
128	AlGaIn/GaN High Electron Mobility Transistors integrated into Wireless Detection System for Glucose and pH in Exhaled Breath Condensate. <i>ECS Transactions</i> , 2009, 19, 85-97.	0.3	2
129	Recent Advances in Wide Bandgap Semiconductor Biological and Gas Sensors. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1202, 138.	0.1	1
130	AlGaIn/GaN HEMT And ZnO nanorod-based sensors for chemical and bio-applications. , 2009, , .		4
131	RF circuits and systems - an interleaving course of RF integrated systems and wireless communications beyond RFIC. , 2009, , .		0
132	UV excimer laser drilled high aspect ratio submicron via hole. <i>Applied Surface Science</i> , 2009, 256, 183-186.	3.1	4
133	Half-symbol-rate-carrier PSK modulation for bandwidth-efficient high-speed data communications. <i>AEU - International Journal of Electronics and Communications</i> , 2009, 63, 609-615.	1.7	0
134	Transmitting coil achieving uniform magnetic field distribution for planar wireless power transfer system. , 2009, , .		79
135	Design and Test of a High-Power High-Efficiency Loosely Coupled Planar Wireless Power Transfer System. <i>IEEE Transactions on Industrial Electronics</i> , 2009, 56, 1801-1812.	5.2	434
136	Design and Optimization of a Class-E Amplifier for a Loosely Coupled Planar Wireless Power System. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2009, 56, 830-834.	2.2	83
137	Packaging effects on the figure of merit of a CMOS cascode low-noise amplifier: Flip-chip versus wire-bond. , 2009, , .		8
138	Advances in Hydrogen, Carbon Dioxide, and Hydrocarbon Gas Sensor Technology Using GaN and ZnO-Based Devices. <i>Sensors</i> , 2009, 9, 4669-4694.	2.1	86
139	A 0.1-20 GHz Low-Power Self-Biased Resistive-Feedback LNA in 90 nm Digital CMOS. <i>IEEE Microwave and Wireless Components Letters</i> , 2009, 19, 323-325.	2.0	58
140	A 36-80 GHz High Gain Millimeter-Wave Double-Balanced Active Frequency Doubler in SiGe BiCMOS. <i>IEEE Microwave and Wireless Components Letters</i> , 2009, 19, 572-574.	2.0	50
141	Packaging effects on a CMOS low-noise amplifier: Flip-chip versus wirebond. , 2009, , .		7
142	Software configurable 5.8 GHz radar sensor receiver chip in 0.13 μm CMOS for non-contact vital sign detection. , 2009, , .		5
143	A Loosely Coupled Planar Wireless Power System for Multiple Receivers. <i>IEEE Transactions on Industrial Electronics</i> , 2009, 56, 3060-3068.	5.2	195
144	A Broadband Microstrip Antenna With Improved Gain for Noncontact Vital Sign Radar Detection. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2009, 8, 939-942.	2.4	26

#	ARTICLE	IF	CITATIONS
145	MTT is GOLD! [From the Editors' Desk]. IEEE Microwave Magazine, 2009, 10, 8-10.	0.7	0
146	Role of Gate Oxide in AlGaIn/GaN High-Electron-Mobility Transistor pH Sensors. Journal of Electronic Materials, 2008, 37, 550-553.	1.0	34
147	Microwave Performance of AlGaIn/GaN High-Electron-Mobility Transistors on Si/SiO ₂ /Poly-SiC Substrates. Journal of Electronic Materials, 2008, 37, 384-387.	1.0	3
148	ZnO and Related Materials for Sensors and Light-Emitting Diodes. Journal of Electronic Materials, 2008, 37, 1426-1432.	1.0	52
149	5.8 GHz orientation-specific extruded heatsink antennas for 3D RF system integration. Microwave and Optical Technology Letters, 2008, 50, 1826-1831.	0.9	19
150	A digitally controlled band-switching VCO using switching inductors and capacitors in 0.18 μm CMOS. Microwave and Optical Technology Letters, 2008, 50, 1970-1973.	0.9	1
151	Wireless hydrogen sensor network using AlGaIn/GaN high electron mobility transistor differential diode sensors. Sensors and Actuators B: Chemical, 2008, 135, 188-194.	4.0	51
152	A 24-GHz Transmitter With On-Chip Dipole Antenna in 0.13- μm CMOS. IEEE Journal of Solid-State Circuits, 2008, 43, 1394-1402.	3.5	33
153	Design of Multigigabit-per-Second Transceiver for Band-Limited High-Speed Data Communication Using DC-Free Signaling. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 1555-1564.	2.9	1
154	ESD-Protected Wideband CMOS LNAs Using Modified Resistive Feedback Techniques With Chip-on-Board Packaging. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 1817-1826.	2.9	75
155	A 5GHz Double-Sideband Radar Sensor Chip in 0.18 μm CMOS for Non-Contact Vital Sign Detection. IEEE Microwave and Wireless Components Letters, 2008, 18, 494-496.	2.0	51
156	A Packaged and ESD-Protected Inductorless 0.1 μm 8 GHz Wideband CMOS LNA. IEEE Microwave and Wireless Components Letters, 2008, 18, 416-418.	2.0	36
157	RF Characteristics of Room-Temperature-Deposited, Small Gate Dimension Indium Zinc Oxide TFTs. Electrochemical and Solid-State Letters, 2008, 11, H60.	2.2	32
158	Wideband mixed lumped-distributed-element 90 \circ and 180 \circ power splitters on silicon substrate for millimeter-wave applications. , 2008, , .		7
159	Random Body Movement Cancellation in Doppler Radar Vital Sign Detection. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 3143-3152.	2.9	340
160	Multiband 0.25- μm CMOS Base Station Chips for Indirect and Direct Conversion Receivers. IEEE Transactions on Circuits and Systems I: Regular Papers, 2008, 55, 2106-2115.	3.5	12
161	Complex signal demodulation and random body movement cancellation techniques for non-contact vital sign detection. , 2008, , .		34
162	Room Temperature Deposited Enhancement Mode and Depletion Mode Indium Zinc Oxide Thin Film Transistors. ECS Transactions, 2008, 13, 159-164.	0.3	0

#	ARTICLE	IF	CITATIONS
163	Battlefield triage life signs detection techniques. Proceedings of SPIE, 2008, , .	0.8	4
164	Message from the RFIC-2008 General Chairman. , 2008, , .		0
165	Wireless Hydrogen Sensor Networks Using AlGaIn/GaN High Electron Mobility Transistor Based Differential Diodes Sensor. ECS Transactions, 2008, 16, 127-137.	0.3	2
166	Design Guidelines for Radio Frequency Non-contact Vital Sign Detection. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1651-4.	0.5	13
167	Development of Non-contact Physiological Motion Sensor on CMOS Chip and Its Potential Applications. , 2007, , .		2
168	ZnO Nanowires for Sensing and Device Applications. ECS Transactions, 2007, 11, 23-33.	0.3	2
169	GaN and ZnO-Based Sensors for Gas, Nuclear Materials and Chemical Detection. ECS Transactions, 2007, 11, 259-270.	0.3	0
170	Role of grain boundaries in ZnO nanowire field-effect transistors. Journal of Applied Physics, 2007, 101, 024301.	1.1	14
171	Optimal Carrier Frequency of Non-contact Vital Sign Detectors. , 2007, , .		83
172	Non-Contact Measurement of Periodic Movements by a 22-40GHz Radar Sensor Using Nonlinear Phase Modulation. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	27
173	Stable hydrogen sensors from AlGaIn ^x GaN heterostructure diodes with TiB ₂ -based Ohmic contacts. Applied Physics Letters, 2007, 90, 252109.	1.5	29
174	Frequency Response and Devices Performance of the Indium Zinc Oxide Thin Film Transistors. ECS Transactions, 2007, 11, 23-27.	0.3	2
175	Microwave and millimeter-wave Doppler radar heart sensing. , 2007, , .		2
176	Robust Detection of Hydrogen Using Differential AlGaIn/GaN High Electron Mobility Transistor Sensing Diodes. ECS Transactions, 2007, 6, 289-295.	0.3	0
177	Localization of nodes and personnel in a multistatic radar sensor network. , 2007, , .		0
178	A Software Configurable Coupler with Programmable Coupling Coefficient. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	16
179	Dual-Function 3-D Heatsink Antenna for High-Density 3-D Integration. , 2007, , .		3
180	Wireless Non-Contact Detection of Heartbeat and Respiration Using Low-Power Microwave Radar Sensor. , 2007, , .		35

#	ARTICLE	IF	CITATIONS
181	A Vector-Fitting Formulation for Parameter Extraction of Lossy Microwave Filters. IEEE Microwave and Wireless Components Letters, 2007, 17, 277-279.	2.0	27
182	A Portable Noncontact Heartbeat and Respiration Monitoring System Using 5-GHz Radar. IEEE Sensors Journal, 2007, 7, 1042-1043.	2.4	75
183	Half-Symbol-Rate-Carrier Offset QPSK Transmitter for Bandwidth-Efficient High-Speed Data Communications. IEEE Microwave and Wireless Components Letters, 2007, 17, 466-468.	2.0	3
184	A Reconfigurable Filter Based on Doublet Configuration. IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium, 2007, , .	0.0	12
185	Analysis and design of AlGaIn/GaN HEMT resistive mixers. Microwave and Optical Technology Letters, 2007, 49, 1152-1154.	0.9	11
186	A CMOS RF predistorter using diode-connected MOSFET. Microwave and Optical Technology Letters, 2007, 49, 2055-2057.	0.9	1
187	A hydrogen leakage detection system using self-powered wireless hydrogen sensor nodes. Solid-State Electronics, 2007, 51, 1018-1022.	0.8	16
188	Electrical Backplane Equalization Using Programmable Analog Zeros and Folded Active Inductors. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1459-1466.	2.9	8
189	Direct-conversion quadrature modulator MMIC design with a new 90/spl deg/ phase shifter including package and PCB effects for W-CDMA applications. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 2691-2698.	2.9	9
190	High-efficiency GaN/AlGaIn HEMT oscillator operating at L-band. , 2006, , .		5
191	A novel linearizer and a fully integrated CMOS power amplifier. , 2006, , .		3
192	Simulation and Measurement of a Heatsink Antenna: A Dual-Function Structure. IEEE Transactions on Antennas and Propagation, 2006, 54, 1342-1345.	3.1	39
193	Design and analysis of a low-power discrete phase modulator in a 0.13-/spl mu/m logic CMOS process. IEEE Microwave and Wireless Components Letters, 2006, 16, 137-139.	2.0	3
194	A Multi-Carrier QAM Transceiver for Ultra-Wideband Optical Communication. IEEE Journal of Solid-State Circuits, 2006, 41, 1876-1893.	3.5	4
195	Experiment and Spectral Analysis of a Low-Power \$Ka\$-Band Heartbeat Detector Measuring From Four Sides of a Human Body. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 4464-4471.	2.9	204
196	Accuracy of A Low-Power Ka-Band Non-Contact Heartbeat Detector Measured from Four Sides of A Human Body. , 2006, , .		20
197	Wide Bandgap Semiconductor Nanorod and Thin Film Gas Sensors. Sensors, 2006, 6, 643-666.	2.1	52
198	A Linearized Cascode CMOS Power Amplifier. , 2006, , .		13

#	ARTICLE	IF	CITATIONS
199	Comparison of laser-wavelength operation for drilling of via holes in AlGaIn/GaN HEMTs on SiC substrates. Journal of Electronic Materials, 2006, 35, 675-679.	1.0	9
200	RF subsystems implemented in mainstream CMOS - Overcoming special concerns affecting performance and cost. IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems, 2006, 22, 39-46.	0.8	5
201	A digitally controlled constant envelope phase-shift modulator for low-power broad-band wireless applications. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 96-105.	2.9	22
202	Frequency-tuning technique for remote detection of heartbeat and respiration using low-power double-sideband transmission in the ka-band. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 2023-2032.	2.9	221
203	A low-power up-conversion CMOS mixer for 22-29-GHz ultra-wideband applications. IEEE Transactions on Microwave Theory and Techniques, 2006, 54, 3295-3300.	2.9	55
204	A high efficiency class-F power amplifier using AlGaIn/GaN HEMT. Microwave and Optical Technology Letters, 2006, 48, 1955-1957.	0.9	5
205	Thermal simulations of three-dimensional integrated multichip module with GaN power amplifier and Si modulator. Journal of Vacuum Science & Technology B, 2006, 24, 284.	1.3	8
206	AlGaIn ^x GaN high electron mobility transistors on Si ³ N ⁴ /SiO ₂ /poly-SiC substrates. Journal of Vacuum Science & Technology B, 2006, 24, 2302.	1.3	7
207	Microwave Wireless Power Transmission - A System Perspective. ECS Transactions, 2006, 3, 127-140.	0.3	3
208	AlGaIn/GaN High Electron Mobility Transistors on Si/SiO ₂ /poly-SiC Substrates. Materials Research Society Symposia Proceedings, 2006, 955, 1.	0.1	1
209	Development of Thin Film and Nanorod ZnO-Based LEDs and Sensors. Materials Research Society Symposia Proceedings, 2006, 957, 1.	0.1	1
210	Thermal Considerations in Design of Vertically Integrated Si ³ N ⁴ /GaIn ^x GaN/SiC Multichip Modules. Journal of the Electrochemical Society, 2006, 153, G906.	1.3	3
211	Robust Overnight Monitoring of Human Vital Signs by a Non-contact Respiration and Heartbeat Detector. , 2006, 2006, 2235-8.		75
212	Robust detection of hydrogen using differential AlGaIn ^x GaN high electron mobility transistor sensing diodes. Applied Physics Letters, 2006, 89, 242111.	1.5	44
213	Robust Overnight Monitoring of Human Vital Signs by a Non-contact Respiration and Heartbeat Detector. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	3
214	Wireless Hydrogen Sensor Self-Powered Using Ambient Vibration and Light. , 2006, , .		0
215	Direct-conversion quadrature modulator MMIC design with a new 90 degrees phase shifter including package and PCB effects for W-CDMA applications. , 2005, , .		5
216	Remote sensing system for hydrogen using GaN Schottky diodes. Sensors and Actuators B: Chemical, 2005, 105, 329-333.	4.0	18

#	ARTICLE	IF	CITATIONS
217	Detection of hydrogen at room temperature with catalyst-coated multiple ZnO nanorods. Applied Physics A: Materials Science and Processing, 2005, 81, 1117-1119.	1.1	77
218	Piezoelectric polarization-induced two dimensional electron gases in AlGaIn/GaN heteroepitaxial structures: Application for micro-pressure sensors. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 409, 340-347.	2.6	19
219	Electrical backplane equalization using programmable analog zeros and folded active inductors. , 2005, , .		2
220	Room-Temperature Hydrogen-Selective Sensing Using Single Pt-Coated ZnO Nanowires at Microwatt Power Levels. Electrochemical and Solid-State Letters, 2005, 8, G230.	2.2	60
221	Hydrogen-selective sensing at room temperature with ZnO nanorods. Applied Physics Letters, 2005, 86, 243503.	1.5	524
222	A Ka-Band Low Power Doppler Radar System for Remote Detection of Cardiopulmonary Motion. , 2005, 2005, 7151-4.		37
223	Hydrogen sensing at room temperature with Pt-coated ZnO thin films and nanorods. Applied Physics Letters, 2005, 87, 222106.	1.5	262
224	A K-band down-conversion mixer with 1.4-GHz bandwidth in 0.13- μm CMOS technology. IEEE Microwave and Wireless Components Letters, 2005, 15, 493-495.	2.0	26
225	Range Correlation and I/Q Performance Benefits in Single-Chip Silicon Doppler Radars for Noncontact Cardiopulmonary Monitoring. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 838-848.	2.9	544
226	GaN-based diodes and transistors for chemical, gas, biological and pressure sensing. Journal of Physics Condensed Matter, 2004, 16, R961-R994.	0.7	263
227	RFIC's challenges for third-generation wireless systems. , 2001, , .		1
228	Chip-package codesign for high-frequency circuits and systems. IEEE Micro, 1998, 18, 24-32.	1.8	6
229	Ga ₂ O ₃ (Gd ₂ O ₃)/InGaAs enhancement-mode n-channel MOSFETs. IEEE Electron Device Letters, 1998, 19, 309-311.	2.2	135
230	Single- and double-heterojunction pseudomorphic In _{0.5} (Al _{0.3} Ga _{0.7}) _{0.5} P/In _{0.2} Ga _{0.8} As high electron mobility transistors grown by gas source molecular beam epitaxy. IEEE Electron Device Letters, 1997, 18, 550-552.	2.2	17
231	High Q-factor inductors integrated on MCM Si substrates. IEEE Transactions on Advanced Packaging, 1996, 19, 635-643.	0.7	27
232	Experiments of device failures in a spatial power-combining array. IEEE Transactions on Microwave Theory and Techniques, 1995, 43, 267-271.	2.9	1
233	Control of mode-switching in an active antenna using MESFET. IEEE Transactions on Microwave Theory and Techniques, 1995, 43, 1869-1874.	2.9	8
234	Ka-band monolithic InGaAs/InP HBT VCO's in CPW structure. , 1995, 5, 379-381.		25

#	ARTICLE	IF	CITATIONS
235	Active integrated antennas. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 2186-2194.	2.9	151
236	FDTD analysis of an active antenna. , 1994, 4, 296-298.		28
237	Two-dimensional quasi-optical power-combining arrays using strongly coupled oscillators. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 734-741.	2.9	69
238	Mode Switching in an Active Antenna Using Reactive FET. , 1994, , .		2
239	Mode analysis and stabilization of a spatial power combining array with strongly coupled oscillators. IEEE Transactions on Microwave Theory and Techniques, 1993, 41, 1827-1837.	2.9	78
240	FDTD analysis of an active antenna. , 1993, 3, 423-425.		84
241	Analysis of device failures in a power-combining array. , 1993, , .		1
242	Relative intensity noise of vertical cavity surface emitting lasers. Applied Physics Letters, 1993, 62, 1194-1196.	1.5	53
243	Progress of a tunable active bandpass filter. Annales Des Telecommunications/Annals of Telecommunications, 1992, 47, 499-507.	1.6	4
244	Laser Tuning of a Planar Active Band-Pass Filter using MESFETs. , 1991, , .		4
245	Error analysis of scanner in automated inductance calibration system. , 1990, , .		0
246	Frequency tuning of a spatial power combining array using strongly coupled oscillators. , 0, , .		1
247	A unilateral injection-locking type active phased array for beam scanning. , 0, , .		16
248	High quality-factor inductors integrated on Si multichip modules. , 0, , .		6
249	Active integrated antennas for microwave wireless systems. , 0, , .		3
250	Accurate design of inductors on multi-chip module using high-resistivity silicon substrate. , 0, , .		6
251	Investigation of current crowding effect on spiral inductors. , 0, , .		22
252	An adaptive antenna integrated with automatic gain control for receiver front end. , 0, , .		2

#	ARTICLE	IF	CITATIONS
253	Silicon low noise amplifier chips for multi-chip module integration on a silicon-based substrate. , 0, , .		1
254	Highly accurate spurious-free integrated VCO resonator in a GSM transceiver using circuit-package co-design. , 0, , .		0
255	An integrated low-phase-noise voltage controlled oscillator for base station applications. , 0, , .		9
256	Silicon RFIC's for a DCS1800 base station receiver downconverter. , 0, , .		0
257	A microwave radio for Doppler radar sensing of vital signs. , 0, , .		162
258	Silicon chips for GSM base station receivers. , 0, , .		1
259	0.25 $\hat{1}$ / ₄ m CMOS and BiCMOS single-chip direct-conversion Doppler radars for remote sensing of vital signs. , 0, , .		34
260	0.25 $\hat{1}$ / ₄ m CMOS and BiCMOS single-chip direct-conversion doppler radar for remote sensing of vital signs. , 0, , .		0
261	Modified silicon base station chips as biomedical sensors. , 0, , .		0
262	Wireless IC doppler radars for sensing of heart and respiration activity. , 0, , .		12
263	Design and analysis of a low-power constant envelope phase shift modulator. , 0, , .		4
264	Comparison of self-adaptive wireless networks using mobile base stations and mobile access points. , 0, , .		0
265	Comparison of self-adaptive wireless networks using mobile base stations and mobile access points. , 0, , .		0
266	A 2.5 GHz constant envelope phase shift modulator for low-power wireless applications. , 0, , .		5
267	An integrated CMOS transceiver for a 40Gb/s SCM optical communication system. , 0, , .		2
268	A broadband high data rate constant envelope phase shift modulator in a 0.13 $\hat{1}$ / ₄ m logic CMOS process. , 0, , .		0
269	1-11 GHz Ultra-Wideband Resistive Ring Mixer in 0.18- $\hat{1}$ / ₄ m CMOS Technology. , 0, , .		8
270	Analysis of a self-optimizing wireless data network using autonomous mobile wireless routers. , 0, , .		0

#	ARTICLE	IF	CITATIONS
271	Physiological Radar Sensor Chip Development. , 0, , 172-201.		0