

Jenshan Lin

List of Publications by Year in descending order

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271
papers

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66234

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287
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287
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287
times ranked

6288
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Hydrogen-selective sensing at room temperature with ZnO nanorods. Applied Physics Letters, 2005, 86, 243503.	1.5	524
4	Design and Test of a High-Power High-Efficiency Loosely Coupled Planar Wireless Power Transfer System. IEEE Transactions on Industrial Electronics, 2009, 56, 1801-1812.	5.2	434
5	Random Body Movement Cancellation in Doppler Radar Vital Sign Detection. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 3143-3152.	2.9	340
6	Wireless Power Transmission: From Far Field to Near Field. Proceedings of the IEEE, 2013, 101, 1321-1331.	16.4	290
7	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
8	GaN-based diodes and transistors for chemical, gas, biological and pressure sensing. Journal of Physics Condensed Matter, 2004, 16, R961-R994.	0.7	263
9	Hydrogen sensing at room temperature with Pt-coated ZnO thin films and nanorods. Applied Physics Letters, 2005, 87, 222106.	1.5	262
10	Recent advances in wide bandgap semiconductor biological and gas sensors. Progress in Materials Science, 2010, 55, 1-59.	16.0	247
11	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
12	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
13	A Loosely Coupled Planar Wireless Power System for Multiple Receivers. IEEE Transactions on Industrial Electronics, 2009, 56, 3060-3068.	5.2	195
14	A microwave radio for Doppler radar sensing of vital signs. , 0, , .		162
15	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
16	Active integrated antennas. IEEE Transactions on Microwave Theory and Techniques, 1994, 42, 2186-2194.	2.9	151
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Accurate Doppler Radar Noncontact Vital Sign Detection Using the RELAX Algorithm. IEEE Transactions on Instrumentation and Measurement, 2010, 59, 687-695.	2.4	120
20	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
21	High-Sensitivity Software-Configurable 5.8-GHz Radar Sensor Receiver Chip in 0.13- μm CMOS for Noncontact Vital Sign Detection. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 1410-1419.	2.9	105
22	Fast Acquisition of Heart Rate in Noncontact Vital Sign Radar Measurement Using Time-Window-Variation Technique. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 112-122.	2.4	102
23	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, 2016, 64, 1937-1946.	2.9	93
24	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
25	Advances in Hydrogen, Carbon Dioxide, and Hydrocarbon Gas Sensor Technology Using GaN and ZnO-Based Devices. Sensors, 2009, 9, 4669-4694.	2.1	86
26	FDTD analysis of an active antenna. , 1993, 3, 423-425.		84
27	Optimal Carrier Frequency of Non-contact Vital Sign Detectors. , 2007, , .		83
28	Design and Optimization of a Class-E Amplifier for a Loosely Coupled Planar Wireless Power System. IEEE Transactions on Circuits and Systems II: Express Briefs, 2009, 56, 830-834.	2.2	83
29	Transmitting coil achieving uniform magnetic field distribution for planar wireless power transfer system. , 2009, , .		79
30	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
31	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
32	Robust Overnight Monitoring of Human Vital Signs by a Non-contact Respiration and Heartbeat Detector. , 2006, 2006, 2235-8.		75
33	A Portable Noncontact Heartbeat and Respiration Monitoring System Using 5-GHz Radar. IEEE Sensors Journal, 2007, 7, 1042-1043.	2.4	75
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	A 25.6 W 13.56 MHz wireless power transfer system with a 94% efficiency GaN Class-E power amplifier. , 2012, , .		63
39	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
40	A 0.1â€“20 GHz Low-Power Self-Biased Resistive-Feedback LNA in 90 nm Digital CMOS. IEEE Microwave and Wireless Components Letters, 2009, 19, 323-325.	2.0	58
41	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
42	A 1â€“25 GHz GaN HEMT MMIC Low-Noise Amplifier. IEEE Microwave and Wireless Components Letters, 2010, 20, 563-565.	2.0	54
43	Relative intensity noise of vertical cavity surface emitting lasers. Applied Physics Letters, 1993, 62, 1194-1196.	1.5	53
44	Wide Bandgap Semiconductor Nanorod and Thin Film Gas Sensors. Sensors, 2006, 6, 643-666.	2.1	52
45	ZnO and Related Materials for Sensors and Light-Emitting Diodes. Journal of Electronic Materials, 2008, 37, 1426-1432.	1.0	52
46	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
47	A 5GHz Double-Sideband Radar Sensor Chip in 0.18 μ m CMOS for Non-Contact Vital Sign Detection. IEEE Microwave and Wireless Components Letters, 2008, 18, 494-496.	2.0	51
48	A 36â€“80 GHz High Gain Millimeter-Wave Double-Balanced Active Frequency Doubler in SiGe BiCMOS. IEEE Microwave and Wireless Components Letters, 2009, 19, 572-574.	2.0	50
49	Robust detection of hydrogen using differential AlGaIn \cdot GaN high electron mobility transistor sensing diodes. Applied Physics Letters, 2006, 89, 242111.	1.5	44
50	A wireless power station for laptop computers. , 2010, , .		44
51	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
52	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
53	Respiration harmonics cancellation for Accurate Heart Rate measurement in non-contact vital sign detection. , 2013, , .		41
54	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

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55	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
56	Simulation and Measurement of a Heatsink Antenna: A Dual-Function Structure. IEEE Transactions on Antennas and Propagation, 2006, 54, 1342-1345.	3.1	39
57	Design of a 3-D Fractal Heatsink Antenna. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 1061-1064.	2.4	39
58	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
59	A Ka-Band Low Power Doppler Radar System for Remote Detection of Cardiopulmonary Motion. , 2005, 2005, 7151-4.		37
60	A Packaged and ESD-Protected Inductorless 0.1-0.8 GHz Wideband CMOS LNA. IEEE Microwave and Wireless Components Letters, 2008, 18, 416-418.	2.0	36
61	High efficiency midrange wireless power transfer system. , 2011, , .		36
62	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
63	Dynamic Switching Characteristics of 1 A Forward Current $\text{Ga}_{0.2}\text{O}_{0.3}$ Rectifiers. IEEE Journal of the Electron Devices Society, 2019, 7, 57-61.	1.2	36
64	Wireless Non-Contact Detection of Heartbeat and Respiration Using Low-Power Microwave Radar Sensor. , 2007, , .		35
65	0.25 μm CMOS and BiCMOS single-chip direct-conversion Doppler radars for remote sensing of vital signs. , 0, , .		34
66	Role of Gate Oxide in AlGaIn/GaN High-Electron-Mobility Transistor pH Sensors. Journal of Electronic Materials, 2008, 37, 550-553.	1.0	34
67	Complex signal demodulation and random body movement cancellation techniques for non-contact vital sign detection. , 2008, , .		34
68	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
69	RF Characteristics of Room-Temperature-Deposited, Small Gate Dimension Indium Zinc Oxide TFTs. Electrochemical and Solid-State Letters, 2008, 11, H60.	2.2	32
70	Sensing of Life Activities at the Human-Microwave Frontier. IEEE Journal of Microwaves, 2021, 1, 66-78.	4.9	31
71	Stable hydrogen sensors from AlGaIn/GaN heterostructure diodes with TiB ₂ -based Ohmic contacts. Applied Physics Letters, 2007, 90, 252109.	1.5	29
72	FDTD analysis of an active antenna. , 1994, 4, 296-298.		28

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73	A flip-chip-packaged and fully integrated 60 GHz CMOS micro-radar sensor for heartbeat and mechanical vibration detections. , 2012, , .		28
74	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
75	High Q-factor inductors integrated on MCM Si substrates. IEEE Transactions on Advanced Packaging, 1996, 19, 635-643.	0.7	27
76	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
77	A Vector-Fitting Formulation for Parameter Extraction of Lossy Microwave Filters. IEEE Microwave and Wireless Components Letters, 2007, 17, 277-279.	2.0	27
78	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
79	A Broadband Microstrip Antenna With Improved Gain for Noncontact Vital Sign Radar Detection. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 939-942.	2.4	26
80	Ka-band monolithic InGaAs/InP HBT VCO's in CPW structure. , 1995, 5, 379-381.		25
81	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
82	Verification of a non-contact vital sign monitoring system using an infant simulator. , 2009, 2009, 4836-9.		23
83	Noninvasive Measurement and Analysis of Laboratory Rat's Cardiorespiratory Movement. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 574-581.	2.9	23
84	Investigation of current crowding effect on spiral inductors. , 0, , .		22
85	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
86	Effects of I/Q mismatch on measurement of periodic movement using a Doppler radar sensor. , 2010, , .		22
87	Concurrent Detection of Vibration and Distance Using Unmodulated CW Doppler Vibration Radar With An Adaptive Beam-Steering Antenna. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2069-2078.	2.9	21
88	Accuracy of A Low-Power Ka-Band Non-Contact Heartbeat Detector Measured from Four Sides of A Human Body. , 2006, , .		20
89	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
90	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

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91	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
92	Linearization and Imbalance Correction Techniques for Broadband Outphasing Power Amplifiers. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2185-2198.	2.9	19
93	Remote sensing system for hydrogen using GaN Schottky diodes. Sensors and Actuators B: Chemical, 2005, 105, 329-333.	4.0	18
94	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
95	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
96	Switching Behavior and Forward Bias Degradation of 700V, 0.2A, $\text{In}^{2-}\text{Ga}_{2-}\text{O}_{3-}$ Vertical Geometry Rectifiers. ECS Journal of Solid State Science and Technology, 2019, 8, Q3028-Q3033.	0.9	18
97	Implementation of a 900ÅV Switching Circuit for High Breakdown Voltage $\text{In}^{2-}\text{Ga}_{2-}\text{O}_{3-}$ Schottky Diodes. ECS Journal of Solid State Science and Technology, 2019, 8, Q3229-Q3234.	0.9	18
98	Single- and double-heterojunction pseudomorphic $\text{In}_{0.5}(\text{Al}_{0.3}\text{Ga}_{0.7})_{0.5}\text{P}/\text{In}_{0.2}\text{Ga}_{0.8}\text{As}$ high electron mobility transistors grown by gas source molecular beam epitaxy. IEEE Electron Device Letters, 1997, 18, 550-552.	2.2	17
99	Vital sign detection using 60-GHz Doppler radar system. , 2013, , .		17
100	A unilateral injection-locking type active phased array for beam scanning. , 0, , .		16
101	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
102	A hydrogen leakage detection system using self-powered wireless hydrogen sensor nodes. Solid-State Electronics, 2007, 51, 1018-1022.	0.8	16
103	A Beam-Steering Broadband Microstrip Antenna for Noncontact Vital Sign Detection. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 235-238.	2.4	16
104	Role of grain boundaries in ZnO nanowire field-effect transistors. Journal of Applied Physics, 2007, 101, 024301.	1.1	14
105	3-D wireless charging system with flexible receiver coil alignment. , 2016, , .		14
106	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
107	A Linearized Cascode CMOS Power Amplifier. , 2006, , .		13
108	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

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109	A Loosely Coupled Planar Wireless Power Transfer System Supporting Multiple Receivers. <i>Advances in Power Electronics</i> , 2010, 2010, 1-13.	0.8	13
110	Wireless IC doppler radars for sensing of heart and respiration activity. , 0, , .		12
111	A Reconfigurable Filter Based on Doublet Configuration. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007, , .	0.0	12
112	Multiband 0.25- μm CMOS Base Station Chips for Indirect and Direct Conversion Receivers. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008, 55, 2106-2115.	3.5	12
113	Analysis and design of AlGaIn/GaN HEMT resistive mixers. <i>Microwave and Optical Technology Letters</i> , 2007, 49, 1152-1154.	0.9	11
114	VitalTrack: A Doppler radar sensor platform for monitoring activity levels. , 2012, , .		11
115	Digitally assisted low IF architecture for noncontact vital sign detection. , 2015, , .		11
116	A 100-GHz Double-Sideband Low-IF CW Doppler Radar in 65-nm CMOS for Mechanical Vibration and Biological Vital Sign Detections. , 2019, , .		11
117	A 3D resonant wireless charger for a wearable device and a mobile phone. , 2015, , .		10
118	Adaptive harmonics comb notch digital filter for measuring heart rate of laboratory rat using a 60-GHz radar. , 2016, , .		10
119	An integrated low-phase-noise voltage controlled oscillator for base station applications. , 0, , .		9
120	Direct-conversion quadrature modulator MMIC design with a new 90/spl deg/ phase shifter including package and PCB effects for W-CDMA applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006, 54, 2691-2698.	2.9	9
121	Comparison of laser-wavelength operation for drilling of via holes in AlGaIn/GaN HEMTs on SiC substrates. <i>Journal of Electronic Materials</i> , 2006, 35, 675-679.	1.0	9
122	A 36 W Wireless Power Transfer System with 82% Efficiency for LED Lighting Applications. <i>Transactions of the Japan Institute of Electronics Packaging</i> , 2013, 6, 32-37.	0.3	9
123	Vital sign radars: Past, present, and future. , 2014, , .		9
124	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
125	A fan-shaped plasma reactor for mixing enhancement in a closed chamber. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 22LT01.	1.3	9
126	Control of mode-switching in an active antenna using MESFET. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1995, 43, 1869-1874.	2.9	8

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127	1-11 GHz Ultra-Wideband Resistive Ring Mixer in 0.18- μ m CMOS Technology. , 0, , .		8
128	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
129	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
130	Packaging effects on the figure of merit of a CMOS cascode low-noise amplifier: Flip-chip versus wire-bond. , 2009, , .		8
131	A 68-82 GHz integrated wideband linear receiver using 0.18 μ m SiGe BiCMOS. , 2010, , .		8
132	AlGaIn-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
133	Wideband mixed lumped-distributed-element 90 \circ and 180 \circ power splitters on silicon substrate for millimeter-wave applications. , 2008, , .		7
134	Packaging effects on a CMOS low-noise amplifier: Flip-chip versus wirebond. , 2009, , .		7
135	An injection-locked detector for concurrent spectrum and vital sign sensing. , 2010, , .		7
136	Class-F power amplifier with 80.1% maximum PAE at 2 GHz for cellular base-station applications. , 2013, , .		7
137	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
138	Respiratory Pattern Recognition of an Adult Bullfrog Using a 100-GHz CW Doppler Radar Transceiver. , 2019, , .		7
139	Fast Cerebrospinal Fluid Detection Using Inexpensive Modular Packaging with Disposable Testing Strips. Journal of the Electrochemical Society, 2019, 166, B708-B712.	1.3	7
140	Review of 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
141	High quality-factor inductors integrated on Si multichip modules. , 0, , .		6
142	Accurate design of inductors on multi-chip module using high-resistivity silicon substrate. , 0, , .		6
143	Chip-package codesign for high-frequency circuits and systems. IEEE Micro, 1998, 18, 24-32.	1.8	6
144	21-dB gain 87-GHz low-noise amplifier using 0.18- μ m SiGe BiCMOS. Electronics Letters, 2010, 46, 332.	0.5	6

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145	Antenna radiation pattern effects on a short-range vibration-detection radar system. , 2014, , .		6
146	Non-invasive measurement of laboratory rat's cardiorespiratory movement using a 60-GHz radar and nonlinear Doppler phase modulation. , 2015, , .		6
147	A vital sign radar receiver with integrated A/D converter and dynamic clutter cancellation. , 2016, , .		6
148	Editors' Choiceâ€”Reviewâ€”Semiconductor Integrated Radar for Sensing Applications. ECS Journal of Solid State Science and Technology, 2018, 7, Q3126-Q3142.	0.9	6
149	A Supervised Learning Approach for Real Time Vital Sign Radar Harmonics Cancellation. , 2018, , .		6
150	Envelope detection for a double-sideband Low IF CW radar. , 2018, , .		6
151	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
152	Direct-conversion quadrature modulator MMIC design with a new 90 degrees phase shifter including package and PCB effects for W-CDMA applications. , 2005, , .		5
153	A 2.5 GHz constant envelope phase shift modulator for low-power wireless applications. , 0, , .		5
154	High-efficiency GaN/AlGaIn HEMT oscillator operating at L-band. , 2006, , .		5
155	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
156	A high efficiency class-F power amplifier using AlGaIn/GaN HEMT. Microwave and Optical Technology Letters, 2006, 48, 1955-1957.	0.9	5
157	Software configurable 5.8 GHz radar sensor receiver chip in 0.13 µm CMOS for non-contact vital sign detection. , 2009, , .		5
158	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
159	40-GHz vital sign detection of heartbeat using synchronized motion technique for respiration signal suppression. , 2012, , .		5
160	Multi-layer low frequency tissue equivalent phantoms for noninvasive test of shallow implants and evaluating antenna-body interaction. , 2016, 2016, 2353-2356.		5
161	A Reconfigurable, Pulse-shaping Potentiometric Readout System for Bio-Sensing Transistors. , 2019, 2019, 5761-5764.		5
162	Laser Tuning of a Planar Active Band-Pass Filter using MESFETs. , 1991, , .		4

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163	Progress of a tunable active bandpass filter. Annales Des Telecommunications/Annals of Telecommunications, 1992, 47, 499-507.	1.6	4
164	Design and analysis of a low-power constant envelope phase shift modulator. , 0, , .		4
165	A Multi-Carrier QAM Transceiver for Ultra-Wideband Optical Communication. IEEE Journal of Solid-State Circuits, 2006, 41, 1876-1893.	3.5	4
166	Battlefield triage life signs detection techniques. Proceedings of SPIE, 2008, , .	0.8	4
167	AlGaIn/GaN HEMT And ZnO nanorod-based sensors for chemical and bio-applications. , 2009, , .		4
168	UV excimer laser drilled high aspect ratio submicron via hole. Applied Surface Science, 2009, 256, 183-186.	3.1	4
169	Two-dimensional noncontact vital sign detection using Doppler radar array approach. , 2011, , .		4
170	Adaptive beam-steering antenna for improved coverage of non-contact vital sign radar detection. , 2014, , .		4
171	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
172	Achieving electromagnetic compatibility of wireless power transfer antennas inside MRI system. Wireless Power Transfer, 2019, 6, 138-153.	0.9	4
173	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
174	Doppler Radar Noncontact Vital Sign Monitoring. , 2014, , 41-62.		4
175	Alignment-Free Wireless Charging of Smart Garments with Embroidered Coils. Sensors, 2021, 21, 7372.	2.1	4
176	Wireless Charging for Smart Garment with Textile-based Receiver Coils. , 2020, , .		4
177	Active integrated antennas for microwave wireless systems. , 0, , .		3
178	A novel linearizer and a fully integrated CMOS power amplifier. , 2006, , .		3
179	Design and analysis of a low-power discrete phase modulator in a 0.13- μm logic CMOS process. IEEE Microwave and Wireless Components Letters, 2006, 16, 137-139.	2.0	3
180	Microwave Wireless Power Transmission - A System Perspective. ECS Transactions, 2006, 3, 127-140.	0.3	3

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181	Thermal Considerations in Design of Vertically Integrated Si ⁺ GaN ⁺ SiC Multichip Modules. Journal of the Electrochemical Society, 2006, 153, G906.	1.3	3
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