

Jenshan Lin

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221
papers

7,083
citations

42
h-index

80
g-index

287
ext. papers

8,513
ext. citations

3.2
avg, IF

5.95
L-index

#	Paper	IF	Citations
221	Hydrogen-selective sensing at room temperature with ZnO nanorods. <i>Applied Physics Letters</i> , 2005 , 86, 243503	3.4	475
220	A Review on Recent Advances in Doppler Radar Sensors for Noncontact Healthcare Monitoring. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013 , 61, 2046-2060	4.1	431
219	Range correlation and I/Q performance benefits in single-chip silicon Doppler radars for noncontact cardiopulmonary monitoring. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2004 , 52, 838-848	4.1	422
218	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	8.9	336
217	Random Body Movement Cancellation in Doppler Radar Vital Sign Detection. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 3143-3152	4.1	249
216	Hydrogen sensing at room temperature with Pt-coated ZnO thin films and nanorods. <i>Applied Physics Letters</i> , 2005 , 87, 222106	3.4	244
215	Recent advances in wide bandgap semiconductor biological and gas sensors. <i>Progress in Materials Science</i> , 2010 , 55, 1-59	42.2	212
214	GaN-based diodes and transistors for chemical, gas, biological and pressure sensing. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, R961-R994	1.8	206
213	. <i>Proceedings of the IEEE</i> , 2013 , 101, 1321-1331	14.3	190
212	A Review on Recent Progress of Portable Short-Range Noncontact Microwave Radar Systems. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 1692-1706	4.1	174
211	Frequency-tuning technique for remote detection of heartbeat and respiration using low-power double-sideband transmission in the ka-band. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006 , 54, 2023-2032	4.1	171
210	Experiment and Spectral Analysis of a Low-Power \$Ka\$-Band Heartbeat Detector Measuring From Four Sides of a Human Body. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006 , 54, 4464-4474	4.1	161
209	A Loosely Coupled Planar Wireless Power System for Multiple Receivers. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 3060-3068	8.9	159
208	A microwave radio for Doppler radar sensing of vital signs		121
207	Ga ₂ O ₃ (Gd ₂ O ₃)/InGaAs enhancement-mode n-channel MOSFETs. <i>IEEE Electron Device Letters</i> , 1998 , 19, 309-311	4.4	119
206	Instrument-Based Noncontact Doppler Radar Vital Sign Detection System Using Heterodyne Digital Quadrature Demodulation Architecture. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 1580-1588	5.2	116
205	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1994 , 42, 2186-2194	4.1	99

204	Accurate Doppler Radar Noncontact Vital Sign Detection Using the RELAX Algorithm. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2010 , 59, 687-695	5.2	90
203	Design and Analysis of a 60-GHz CMOS Doppler Micro-Radar System-in-Package for Vital-Sign and Vibration Detection. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013 , 61, 1649-1659	4.1	85
202	A Novel Vital-Sign Sensor Based on a Self-Injection-Locked Oscillator. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 4112-4120	4.1	83
201	Advances in Hydrogen, Carbon Dioxide, and Hydrocarbon Gas Sensor Technology Using GaN and ZnO-Based Devices. <i>Sensors</i> , 2009 , 9, 4669-94	3.8	79
200	High-Sensitivity Software-Configurable 5.8-GHz Radar Sensor Receiver Chip in 0.13- μm CMOS for Noncontact Vital Sign Detection. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 1410-1419	4.1	73
199	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	5.2	71
198	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	3.5	69
197	Detection of hydrogen at room temperature with catalyst-coated multiple ZnO nanorods. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 1117-1119	2.6	68
196	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 ⁶³	4.1	63
195	Robust overnight monitoring of human vital signs by a non-contact respiration and heartbeat detector. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2006 , 2006, 2235-8		61
194	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1994 , 42, 734-741	4.1	59
193	Method of Load/Fault Detection for Loosely Coupled Planar Wireless Power Transfer System With Power Delivery Tracking. <i>IEEE Transactions on Industrial Electronics</i> , 2010 , 57, 1478-1486	8.9	57
192	A Portable Noncontact Heartbeat and Respiration Monitoring System Using 5-GHz Radar. <i>IEEE Sensors Journal</i> , 2007 , 7, 1042-1043	4	57
191	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1993 , 41, 1827-1837	4.1	56
190	Room-Temperature Hydrogen-Selective Sensing Using Single Pt-Coated ZnO Nanowires at Microwatt Power Levels. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, G230		55
189	Wavelet-Transform-Based Data-Length-Variation Technique for Fast Heart Rate Detection Using 5.8-GHz CW Doppler Radar. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 568-576	4.1	54
188	Transmitting coil achieving uniform magnetic field distribution for planar wireless power transfer system 2009 ,		53
187	1993 , 3, 423-425		53

186	ESD-Protected Wideband CMOS LNAs Using Modified Resistive Feedback Techniques With Chip-on-Board Packaging. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 1817-1826	4.1	52
185	Optimal Carrier Frequency of Non-contact Vital Sign Detectors 2007 ,		50
184	ZnO and Related Materials for Sensors and Light-Emitting Diodes. <i>Journal of Electronic Materials</i> , 2008 , 37, 1426-1432	1.9	48
183	A 19 GHz Linear-Wide-Tuning-Range Quadrature Ring Oscillator in 130 nm CMOS for Non-Contact Vital Sign Radar Application. <i>IEEE Microwave and Wireless Components Letters</i> , 2010 , 20, 34-36	2.6	45
182	Wide Bandgap Semiconductor Nanorod and Thin Film Gas Sensors. <i>Sensors</i> , 2006 , 6, 643-666	3.8	45
181	Wireless hydrogen sensor network using AlGaIn/GaN high electron mobility transistor differential diode sensors. <i>Sensors and Actuators B: Chemical</i> , 2008 , 135, 188-194	8.5	43
180	A 0.120 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	2.6	42
179	Robust detection of hydrogen using differential AlGaIn/GaN high electron mobility transistor sensing diodes. <i>Applied Physics Letters</i> , 2006 , 89, 242111	3.4	42
178	A 25.6 W 13.56 MHz wireless power transfer system with a 94% efficiency GaN Class-E power amplifier 2012 ,		41
177	Relative intensity noise of vertical cavity surface emitting lasers. <i>Applied Physics Letters</i> , 1993 , 62, 1194-1196	3.4	41
176	A 5GHz Double-Sideband Radar Sensor Chip in 0.18 μm CMOS for Non-Contact Vital Sign Detection. <i>IEEE Microwave and Wireless Components Letters</i> , 2008 , 18, 494-496	2.6	38
175	A Low-Power Linear SiGe BiCMOS Low-Noise Amplifier for Millimeter-Wave Active Imaging. <i>IEEE Microwave and Wireless Components Letters</i> , 2010 , 20, 103-105	2.6	36
174	A low-power up-conversion CMOS mixer for 22-29-GHz ultra-wideband applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006 , 54, 3295-3300	4.1	36
173	. <i>IEEE Microwave and Wireless Components Letters</i> , 2010 , 20, 563-565	2.6	35
172	A 3680 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	2.6	35
171	Antenna Design of 60-GHz Micro-Radar System-In-Package for Noncontact Vital Sign Detection. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 1702-1705	3.8	34
170	Wireless Detection System for Glucose and pH Sensing in Exhaled Breath Condensate Using AlGaIn/GaN High Electron Mobility Transistors. <i>IEEE Sensors Journal</i> , 2010 , 10, 64-70	4	33
169	A wireless power station for laptop computers 2010 ,		32

168	An 83-GHz High-Gain SiGe BiCMOS Power Amplifier Using Transmission-Line Current-Combining Technique. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013 , 61, 1557-1569	4.1	30
167	RF Characteristics of Room-Temperature-Deposited, Small Gate Dimension Indium Zinc Oxide TFTs. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, H60		29
166	Role of Gate Oxide in AlGaIn/GaN High-Electron-Mobility Transistor pH Sensors. <i>Journal of Electronic Materials</i> , 2008 , 37, 550-553	1.9	29
165	A Packaged and ESD-Protected Inductorless 0.18 GHz Wideband CMOS LNA. <i>IEEE Microwave and Wireless Components Letters</i> , 2008 , 18, 416-418	2.6	28
164	Stable hydrogen sensors from AlGaIn/GaN heterostructure diodes with TiB ₂ -based Ohmic contacts. <i>Applied Physics Letters</i> , 2007 , 90, 252109	3.4	27
163	A 24-GHz Transmitter With On-Chip Dipole Antenna in 0.13- μm CMOS. <i>IEEE Journal of Solid-State Circuits</i> , 2008 , 43, 1394-1402	5.5	26
162	Respiration harmonics cancellation for Accurate Heart Rate measurement in non-contact vital sign detection 2013 ,		25
161	High efficiency midrange wireless power transfer system 2011 ,		25
160	A K-band down-conversion mixer with 1.4-GHz bandwidth in 0.13- μm CMOS technology. <i>IEEE Microwave and Wireless Components Letters</i> , 2005 , 15, 493-495	2.6	24
159	Simulation and measurement of a heatsink antenna: a dual-function structure. <i>IEEE Transactions on Antennas and Propagation</i> , 2006 , 54, 1342-1345	4.9	23
158	A Supervised Machine Learning Algorithm for Heart-Rate Detection Using Doppler Motion-Sensing Radar. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2020 , 4, 45-51	2.8	23
157	A flip-chip-packaged and fully integrated 60 GHz CMOS micro-radar sensor for heartbeat and mechanical vibration detections 2012 ,		22
156	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	3.8	22
155	Wireless Non-Contact Detection of Heartbeat and Respiration Using Low-Power Microwave Radar Sensor 2007 ,		22
154	1994 , 4, 296-298		21
153	Analysis of Detection Methods of RF Vibrometer for Complex Motion Measurement. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2011 , 59, 3556-3566	4.1	20
152	A Vector-Fitting Formulation for Parameter Extraction of Lossy Microwave Filters. <i>IEEE Microwave and Wireless Components Letters</i> , 2007 , 17, 277-279	2.6	20
151	A ka-band low power Doppler radar system for remote detection of cardiopulmonary motion. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2005 , 2005, 7151-4		20

150	High Q-factor inductors integrated on MCM Si substrates. <i>IEEE Transactions on Advanced Packaging</i> , 1996 , 19, 635-643		20
149	Dynamic Switching Characteristics of 1 A Forward Current β -Ga ₂ O ₃ Rectifiers. <i>IEEE Journal of the Electron Devices Society</i> , 2019 , 7, 57-61	2.3	20
148	Functional relationship between material property, applied frequency and ozone generation for surface dielectric barrier discharges in atmospheric air. <i>Scientific Reports</i> , 2017 , 7, 6388	4.9	19
147	Effects of I/Q mismatch on measurement of periodic movement using a Doppler radar sensor 2010 ,		17
146	Linearization and Imbalance Correction Techniques for Broadband Outphasing Power Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 2185-2198	4.1	16
145	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	4.1	16
144	An 80 GHz High Gain Double-Balanced Active Up-Conversion Mixer Using 0.18 μm SiGe BiCMOS Technology. <i>IEEE Microwave and Wireless Components Letters</i> , 2011 , 21, 326-328	2.6	16
143	Design of a 3-D Fractal Heatsink Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2010 , 9, 1061-1064	3.8	16
142	A digitally controlled constant envelope phase-shift modulator for low-power broad-band wireless applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006 , 54, 96-105	4.1	16
141	Remote sensing system for hydrogen using GaN Schottky diodes. <i>Sensors and Actuators B: Chemical</i> , 2005 , 105, 329-333	8.5	16
140	Piezoelectric polarization-induced two dimensional electron gases in AlGa _N /Ga _N heteroepitaxial structures: Application for micro-pressure sensors. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 409, 340-347	5.3	16
139	1995 , 5, 379-381		16
138	Noninvasive Measurement and Analysis of Laboratory Rat's Cardiorespiratory Movement. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2017 , 65, 574-581	4.1	15
137	Verification of a non-contact vital sign monitoring system using an infant simulator. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 4836-9	0.9	15
136	Investigation of current crowding effect on spiral inductors		15
135	A Software Configurable Coupler with Programmable Coupling Coefficient. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 ,		15
134	A W-Band Highly Linear SiGe BiCMOS Double-Balanced Active Up-Conversion Mixer Using Multi-Tanh Triplet Technique. <i>IEEE Microwave and Wireless Components Letters</i> , 2010 , 20, 220-222	2.6	14
133	A hydrogen leakage detection system using self-powered wireless hydrogen sensor nodes. <i>Solid-State Electronics</i> , 2007 , 51, 1018-1022	1.7	14

132	Accuracy of A Low-Power Ka-Band Non-Contact Heartbeat Detector Measured from Four Sides of A Human Body 2006 ,		14
131	Vital sign detection using 60-GHz Doppler radar system 2013 ,		13
130	Single- and double-heterojunction pseudomorphic In/sub 0.5/(Al/sub 0.3/Ga/sub 0.7)/sub 0.5/P/In/sub 0.2/Ga/sub 0.8/As high electron mobility transistors grown by gas source molecular beam epitaxy. <i>IEEE Electron Device Letters</i> , 1997 , 18, 550-552	4.4	13
129	Role of grain boundaries in ZnO nanowire field-effect transistors. <i>Journal of Applied Physics</i> , 2007 , 101, 024301	2.5	13
128	Switching Behavior and Forward Bias Degradation of 700V, 0.2A, EGa2O3Vertical Geometry Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3028-Q3033	2	12
127	A Reconfigurable Filter Based on Doublet Configuration. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 ,		12
126	2013 ,		12
125	. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008 , 55, 2106-2115	3.9	11
124	Wireless IC Doppler radars for sensing of heart and respiration activity		11
123	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 2876-2890	4.1	10
122	5.8 GHz orientation-specific extruded-fin heatsink antennas for 3D RF system integration. <i>Microwave and Optical Technology Letters</i> , 2008 , 50, 1826-1831	1.2	10
121	A Beam-Steering Broadband Microstrip Antenna for Noncontact Vital Sign Detection. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 235-238	3.8	9
120	A Loosely Coupled Planar Wireless Power Transfer System Supporting Multiple Receivers. <i>Advances in Power Electronics</i> , 2010 , 2010, 1-13		9
119	Envelope Detection for an ADC-Relaxed Double-Sideband Low-IF CW Doppler Radar. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2018 , 66, 5833-5841	4.1	9
118	2019 ,		8
117	Design guidelines for radio frequency non-contact vital sign detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007 , 2007, 1651-4		8
116	. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 ,		8
115	0.25 /spl mu/m CMOS and BiCMOS single-chip direct-conversion Doppler radars for remote sensing of vital signs		8

114	Sensing of Life Activities at the Human-Microwave Frontier. <i>IEEE Journal of Microwaves</i> , 2021 , 1, 66-78		8
113	Implementation of a 900V Switching Circuit for High Breakdown Voltage Ga ₂ O ₃ Schottky Diodes. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3229-Q3234	2	7
112	Digitally assisted low IF architecture for noncontact vital sign detection 2015 ,		7
111	An injection-locked detector for concurrent spectrum and vital sign sensing 2010 ,		7
110	Electrical Backplane Equalization Using Programmable Analog Zeros and Folded Active Inductors. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007 , 55, 1459-1466	4.1	7
109	Comparison of laser-wavelength operation for drilling of via holes in AlGa _N /Ga _N HEMTs on SiC substrates. <i>Journal of Electronic Materials</i> , 2006 , 35, 675-679	1.9	7
108	Thermal simulations of three-dimensional integrated multichip module with Ga _N power amplifier and Si modulator. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 284		7
107	AlGa _N /Ga _N high electron mobility transistors on Si ₃ N ₄ /poly-SiC substrates. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 2302		7
106	. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1995 , 43, 1869-1874	4.1	7
105	3-D wireless charging system with flexible receiver coil alignment 2016 ,		6
104	Characterization of Class-F Power Amplifier With Wide Amplitude and Phase Bandwidth for Outphasing Architecture. <i>IEEE Microwave and Wireless Components Letters</i> , 2014 , 24, 188-190	2.6	6
103	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	6
102	Analysis and design of AlGa _N /Ga _N HEMT resistive mixers. <i>Microwave and Optical Technology Letters</i> , 2007 , 49, 1152-1154	1.2	6
101	A Linearized Cascode CMOS Power Amplifier 2006 ,		6
100	Fast SARS-CoV-2 virus detection using disposable cartridge strips and a semiconductor-based biosensor platform. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2021 , 39, 033202	1.3	6
99	Respiratory Pattern Recognition of an Adult Bullfrog Using a 100-GHz CW Doppler Radar Transceiver 2019 ,		5
98	Fast Cerebrospinal Fluid Detection Using Inexpensive Modular Packaging with Disposable Testing Strips. <i>Journal of the Electrochemical Society</i> , 2019 , 166, B708-B712	3.9	5
97	Editors' Choice Review Semiconductor Integrated Radar for Sensing Applications. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, Q3126-Q3142	2	5

96	Nonlinearity Modeling of a Chireix Outphasing Power Amplifier. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015 , 62, 2898-2907	3.9	5
95	VitalTrack: A Doppler radar sensor platform for monitoring activity levels 2012 ,		5
94	Detection of vitellogenin, an endocrine disrupter biomarker, using AlGaIn/GaN high electron mobility transistors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 2486-2488		5
93	21 dB gain 87 GHz low-noise amplifier using 0.18 [micro sign]m SiGe BiCMOS. <i>Electronics Letters</i> , 2010 , 46, 332	1.1	5
92	A 68-82 GHz integrated wideband linear receiver using 0.18 μm SiGe BiCMOS 2010 ,		5
91	Packaging effects on the figure of merit of a CMOS cascode low-noise amplifier: Flip-chip versus wire-bond 2009 ,		5
90	Packaging effects on a CMOS low-noise amplifier: Flip-chip versus wirebond 2009 ,		5
89	A high efficiency class-F power amplifier using AlGaIn/GaN HEMT. <i>Microwave and Optical Technology Letters</i> , 2006 , 48, 1955-1957	1.2	5
88	Non-invasive measurement of laboratory rat's cardiorespiratory movement using a 60-GHz radar and nonlinear Doppler phase modulation 2015 ,		4
87	Antenna radiation pattern effects on a short-range vibration-detection radar system 2014 ,		4
86	AlGaIn/GaN HEMT And ZnO nanorod-based sensors for chemical and bio-applications 2009 ,		4
85	UV excimer laser drilled high aspect ratio submicron via hole. <i>Applied Surface Science</i> , 2009 , 256, 183-186.7		4
84	Chip-package codesign for high-frequency circuits and systems. <i>IEEE Micro</i> , 1998 , 18, 24-32	1.8	4
83	Progress of a tunable active bandpass filter. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 1992 , 47, 499-507	2	4
82	Review Opportunities for Rapid, Sensitive Detection of Troponin and Cerebral Spinal Fluid Using Semiconductor Sensors. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 037507	3.9	4
81	A vital sign radar receiver with integrated A/D converter and dynamic clutter cancellation 2016 ,		4
80	Envelope detection for a double-sideband Low IF CW radar 2018 ,		4
79	A 3D resonant wireless charger for a wearable device and a mobile phone 2015 ,		3

78	Vital sign radars: Past, present, and future 2014 ,		3
77	Self-Tuning High-Voltage High-Frequency Switching Power Amplifier for Atmospheric-Based Plasma Sterilization. <i>IEEE Transactions on Plasma Science</i> , 2014 , 42, 1861-1869	1.3	3
76	A 63W 14MHz Class-E amplifier for wireless power transmission 2012 ,		3
75	Recent Advances in Wide-Bandgap Semiconductor Biological and Gas Sensors 2011 , 43-96		3
74	Wideband mixed lumped-distributed-element 90° and 180° power splitters on silicon substrate for millimeter-wave applications 2008 ,		3
73	Half-Symbol-Rate-Carrier Offset QPSK Transmitter for Bandwidth-Efficient High-Speed Data Communications. <i>IEEE Microwave and Wireless Components Letters</i> , 2007 , 17, 466-468	2.6	3
72	Microwave Performance of AlGaIn/GaN High-Electron-Mobility Transistors on Si/SiO ₂ /Poly-SiC Substrates. <i>Journal of Electronic Materials</i> , 2008 , 37, 384-387	1.9	3
71	Thermal Considerations in Design of Vertically Integrated SiC/GaN/SiC Multichip Modules. <i>Journal of the Electrochemical Society</i> , 2006 , 153, G906	3.9	3
70	Design and analysis of a low-power discrete phase modulator in a 0.13- μ m logic CMOS process. <i>IEEE Microwave and Wireless Components Letters</i> , 2006 , 16, 137-139	2.6	3
69	A Multi-Carrier QAM Transceiver for Ultra-Wideband Optical Communication. <i>IEEE Journal of Solid-State Circuits</i> , 2006 , 41, 1876-1893	5.5	3
68	1-11 GHz ultra-wideband resistive ring mixer in 0.18- μ m CMOS technology		3
67	Laser Tuning of a Planar Active Band-Pass Filter using MESFETs 1991 ,		3
66	Wireless Charging for Smart Garment with Textile-based Receiver Coils 2020 ,		3
65	Robust Overnight Monitoring of Human Vital Signs by a Non-contact Respiration and Heartbeat Detector		3
64	A Two-Electrode, Double-Pulsed Sensor Readout Circuit for Cardiac Troponin I Measurement. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2020 , 14, 1362-1370	5.1	3
63	Multi-layer low frequency tissue equivalent phantoms for noninvasive test of shallow implants and evaluating antenna-body interaction. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2016 , 2016, 2353-2356	0.9	3
62	Adaptive harmonics comb notch digital filter for measuring heart rate of laboratory rat using a 60-GHz radar 2016 ,		3
61	A fan-shaped plasma reactor for mixing enhancement in a closed chamber. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 22LT01	3	2

60	A Reconfigurable, Pulse-shaping Potentiometric Readout System for Bio-Sensing Transistors. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2019, 2019, 5761-5764</i>	0.9	2
59	Adaptive beam-steering antenna for improved coverage of non-contact vital sign radar detection 2014,		2
58	Noncontact measurement of cardiopulmonary movements: A review of system architectures and the path to micro-radars 2013,		2
57	Ka-band quadrature Doppler radar system with sub-millimeter resolution and sensitivity in measuring periodic movement 2010,		2
56	Two-dimensional noncontact vital sign detection using Doppler radar array approach 2011,		2
55	Doppler radar non-contact measurement of rotational movement in both macro- and micro- scales 2009,		2
54	AlGaN/GaN High Electron Mobility Transistors integrated into Wireless Detection System for Glucose and pH in Exhaled Breath Condensate. <i>ECS Transactions, 2009, 19, 85-97</i>	1	2
53	Wireless Hydrogen Sensor Networks Using AlGaN/GaN High Electron Mobility Transistor Based Differential Diodes Sensor. <i>ECS Transactions, 2009, 16, 127-137</i>	1	2
52	40-GHz vital sign detection of heartbeat using synchronized motion technique for respiration signal suppression 2012,		2
51	Software configurable 5.8 GHz radar sensor receiver chip in 0.13 μm CMOS for non-contact vital sign detection 2009,		2
50	Complex signal demodulation and random body movement cancellation techniques for non-contact vital sign detection 2008,		2
49	RF subsystems implemented in mainstream CMOS - Overcoming special concerns affecting performance and cost. <i>IEEE Circuits and Devices: the Magazine of Electronic and Photonic Systems, 2006, 22, 39-46</i>		2
48	Microwave and millimeter-wave Doppler radar heart sensing 2007,		2
47	A 2.5 GHz constant envelope phase shift modulator for low-power wireless applications		2
46	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, 2006, 54, 2691-2698</i>	4.1	2
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