

Jenshan Lin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | Design and Optimization of Wireless Charging Drawer Coil for Smart Garments. <i>IEEE Microwave and Wireless Components Letters</i> , 2022 , 1-4 | 2.6 | |
| 220 | Alignment-Free Wireless Charging of Smart Garments with Embroidered Coils. <i>Sensors</i> , 2021 , 21, | 3.8 | 1 |
| 219 | 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 |
| 218 | Embroidered Textile Coils for Wireless Charging of Smart Garments 2021 , | | 1 |
| 217 | A Novel Energy Harvesting Circuit for RF Surface Coils in the MRI System. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2021 , 15, 791-801 | 5.1 | 0 |
| 216 | Sensing of Life Activities at the Human-Microwave Frontier. <i>IEEE Journal of Microwaves</i> , 2021 , 1, 66-78 | | 8 |
| 215 | A fan-shaped plasma reactor for mixing enhancement in a closed chamber. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 22LT01 | 3 | 2 |
| 214 | . <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2020 , 68, 2876-2890 | 4.1 | 10 |
| 213 | Wireless Charging for Smart Garment with Textile-based Receiver Coils 2020 , | | 3 |
| 212 | 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 |
| 211 | 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 |
| 210 | 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 |
| 209 | Respiratory Pattern Recognition of an Adult Bullfrog Using a 100-GHz CW Doppler Radar Transceiver 2019 , | | 5 |
| 208 | Switching Behavior and Forward Bias Degradation of 700V, 0.2A, EgGa2O3 Vertical Geometry Rectifiers. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3028-Q3033 | 2 | 12 |
| 207 | Implementation of a 900V Switching Circuit for High Breakdown Voltage EgGa2O3 Schottky Diodes. <i>ECS Journal of Solid State Science and Technology</i> , 2019 , 8, Q3229-Q3234 | 2 | 7 |
| 206 | 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 |
| 205 | 2019 , | | 8 |

| | | | |
|-----|---|-----|-----|
| 204 | 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 |
| 203 | Authors' Reply to 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, 2019, 67, 2823-2823</i> | 4.1 | |
| 202 | Achieving electromagnetic compatibility of wireless power transfer antennas inside MRI system. <i>Wireless Power Transfer, 2019, 6, 138-153</i> | 0.9 | 2 |
| 201 | Dynamic Switching Characteristics of 1 A Forward Current β -Ga ₂ O ₃ Rectifiers. <i>IEEE Journal of the Electron Devices Society, 2019, 7, 57-61</i> | 2.3 | 20 |
| 200 | Editors' Choice Review Semiconductor Integrated Radar for Sensing Applications. <i>ECS Journal of Solid State Science and Technology, 2018, 7, Q3126-Q3142</i> | 2 | 5 |
| 199 | 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, 2018, 66, 568-576</i> | 4.1 | 54 |
| 198 | Effect of PIN diode nonlinearity on decoupler circuits in magnetic resonance imaging surface coils 2018 , 48B, e21398 | | 2 |
| 197 | Envelope Detection for an ADC-Relaxed Double-Sideband Low-IF CW Doppler Radar. <i>IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 5833-5841</i> | 4.1 | 9 |
| 196 | Envelope detection for a double-sideband Low IF CW radar 2018 , | | 4 |
| 195 | A Review on Recent Progress of Portable Short-Range Noncontact Microwave Radar Systems. <i>IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 1692-1706</i> | 4.1 | 174 |
| 194 | Functional relationship between material property, applied frequency and ozone generation for surface dielectric barrier discharges in atmospheric air. <i>Scientific Reports, 2017, 7, 6388</i> | 4.9 | 19 |
| 193 | Noninvasive Measurement and Analysis of Laboratory Rat's Cardiorespiratory Movement. <i>IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 574-581</i> | 4.1 | 15 |
| 192 | 3-D wireless charging system with flexible receiver coil alignment 2016 , | | 6 |
| 191 | 60-GHz CMOS Micro-radar System-in-package for Noncontact and Noninvasive Measurement of Human Vital Signs and Vibrations 2016 , 1-33 | | |
| 190 | Intermodulation effect of detecting two subjects within antenna beamwidth of a CW Doppler radar 2016 , | | 1 |
| 189 | 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, 2016, 64, 1937-1946</i> | 4.1 | 63 |
| 188 | Fast Acquisition of Heart Rate in Noncontact Vital Sign Radar Measurement Using Time-Window-Variation Technique. <i>IEEE Transactions on Instrumentation and Measurement, 2016, 65, 112-122</i> | 5.2 | 71 |
| 187 | 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, 2016, 2016, 2353-2356</i> | 0.9 | 3 |

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|-----|---|-----|-----------------|
| 186 | Harmonically terminated high-power rectifier for wireless power transfer. <i>Wireless Power Transfer</i> , 2016 , 3, 75-82 | 0.9 | 1 |
| 185 | Adaptive harmonics comb notch digital filter for measuring heart rate of laboratory rat using a 60-GHz radar 2016 , | | 3 |
| 184 | A vital sign radar receiver with integrated A/D converter and dynamic clutter cancellation 2016 , | | 4 |
| 183 | Advanced Performance Architectures 2016 , 207-268 | | |
| 182 | A 3D resonant wireless charger for a wearable device and a mobile phone 2015 , | | 3 |
| 181 | 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 |
| 180 | Digitally assisted low IF architecture for noncontact vital sign detection 2015 , | | 7 |
| 179 | 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 |
| 178 | Non-invasive measurement of laboratory rat's cardiorespiratory movement using a 60-GHz radar and nonlinear Doppler phase modulation 2015 , | | 4 |
| 177 | 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 |
| 176 | Adaptive beam-steering antenna for improved coverage of non-contact vital sign radar detection 2014 , | | 2 |
| 175 | Vital sign radars: Past, present, and future 2014 , | | 3 |
| 174 | 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 |
| 173 | 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 |
| 172 | Antenna radiation pattern effects on a short-range vibration-detection radar system 2014 , | | 4 |
| 171 | Doppler Radar Noncontact Vital Sign Monitoring 2014 , 41-62 | | 1 |
| 170 | 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 |
| 169 | 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 | 43 ¹ |

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|-----|---|------|-----|
| 168 | Noncontact measurement of cardiopulmonary movements: A review of system architectures and the path to micro-radars 2013 , | | 2 |
| 167 | Class-F power amplifier with 80.1% maximum PAE at 2 GHz for cellular base-station applications 2013 , | | 1 |
| 166 | . <i>Proceedings of the IEEE</i> , 2013 , 101, 1321-1331 | 14.3 | 190 |
| 165 | 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 |
| 164 | Vital sign detection using 60-GHz Doppler radar system 2013 , | | 13 |
| 163 | A Regulated 3.1-0.6 GHz Linear Dual-Tuning Differential Ring Oscillator For UWB Applications. <i>Microwave and Optical Technology Letters</i> , 2013 , 55, 2384-2389 | 1.2 | |
| 162 | Respiration harmonics cancellation for Accurate Heart Rate measurement in non-contact vital sign detection 2013 , | | 25 |
| 161 | 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 |
| 160 | 2013 , | | 12 |
| 159 | Internet Social Networking Groups [TCC Tidbits]. <i>IEEE Microwave Magazine</i> , 2012 , 13, 170-185 | 1.2 | |
| 158 | Correction to A Linear-Wide-Tuning-Range Quadrature Ring Oscillator in 130 nm CMOS for Non-Contact Vital Sign Radar Application [Jan 10 34-36]. <i>IEEE Microwave and Wireless Components Letters</i> , 2012 , 22, 159-159 | 2.6 | |
| 157 | VitalTrack: A Doppler radar sensor platform for monitoring activity levels 2012 , | | 5 |
| 156 | A 25.6 W 13.56 MHz wireless power transfer system with a 94% efficiency GaN Class-E power amplifier 2012 , | | 41 |
| 155 | Expanding RFIC Horizons [From the Guest Editors' Desk]. <i>IEEE Microwave Magazine</i> , 2012 , 13, 10-12 | 1.2 | 1 |
| 154 | A 63W 14MHz Class-E amplifier for wireless power transmission 2012 , | | 3 |
| 153 | A flip-chip-packaged and fully integrated 60 GHz CMOS micro-radar sensor for heartbeat and mechanical vibration detections 2012 , | | 22 |
| 152 | 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 |
| 151 | 40-GHz vital sign detection of heartbeat using synchronized motion technique for respiration signal suppression 2012 , | | 2 |

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|-----|--|-----|----|
| 150 | A 13.56 MHz rectifier with efficiency-improving harmonic-termination circuit for wireless power transmission systems 2012 , | | 1 |
| 149 | Transition to New TCC Chair [TCC Tidbits]. <i>IEEE Microwave Magazine</i> , 2012 , 13, 88-90 | 1.2 | |
| 148 | Non-contact measurement of rotational movement using miniature Doppler radar 2012 , | | 1 |
| 147 | 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 |
| 146 | Wireless Energy Transfer and Conversion [TCC Tidbits]. <i>IEEE Microwave Magazine</i> , 2011 , 12, 126-139 | 1.2 | |
| 145 | High efficiency midrange wireless power transfer system 2011 , | | 25 |
| 144 | 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 |
| 143 | TCC Updates [TCC Tidbits]. <i>IEEE Microwave Magazine</i> , 2011 , 12, 156-158 | 1.2 | |
| 142 | New Technical Committee in Our Society [TCC Tidbits]. <i>IEEE Microwave Magazine</i> , 2011 , 12, 134-136 | 1.2 | |
| 141 | Linking Technical Activities and Chapter Activities [TCC Tidbits]. <i>IEEE Microwave Magazine</i> , 2011 , 12, 74-76 | | |
| 140 | Advances in Hydrogen Gas Sensor Technology and Implementation in Wireless Sensor Networks 2011 , 97-130 | | |
| 139 | Recent Advances in Wide-Bandgap Semiconductor Biological and Gas Sensors 2011 , 43-96 | | 3 |
| 138 | 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 |
| 137 | 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 |
| 136 | Two-dimensional noncontact vital sign detection using Doppler radar array approach 2011 , | | 2 |
| 135 | Low-power 100 GHz shunt-peaked regenerative frequency divider using 0.18 μm SiGe BiCMOS. <i>Electronics Letters</i> , 2011 , 47, 804-805 | 1.1 | 1 |
| 134 | A Loosely Coupled Planar Wireless Power Transfer System Supporting Multiple Receivers. <i>Advances in Power Electronics</i> , 2010 , 2010, 1-13 | | 9 |
| 133 | An injection-locked detector for concurrent spectrum and vital sign sensing 2010 , | | 7 |

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| 132 | 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 |
| 131 | Design of a 3-D Fractal Heatsink Antenna. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2010 , 9, 1061-1064 | 3.6 | 16 |
| 130 | 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 |
| 129 | High-Sensitivity Software-Configurable 5.8-GHz Radar Sensor Receiver Chip in 0.13- μ m CMOS for Noncontact Vital Sign Detection. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 1410-1419 | 4.1 | 73 |
| 128 | A 68-82 GHz integrated wideband linear receiver using 0.18 μ m SiGe BiCMOS 2010 , | | 5 |
| 127 | Wireless Detection System for Glucose and pH Sensing in Exhaled Breath Condensate Using AlGaN/GaN High Electron Mobility Transistors. <i>IEEE Sensors Journal</i> , 2010 , 10, 64-70 | 4 | 33 |
| 126 | . <i>IEEE Microwave and Wireless Components Letters</i> , 2010 , 20, 563-565 | 2.6 | 35 |
| 125 | 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 |
| 124 | A wireless power station for laptop computers 2010 , | | 32 |
| 123 | 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 |
| 122 | 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 |
| 121 | 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 |
| 120 | Effects of I/Q mismatch on measurement of periodic movement using a Doppler radar sensor 2010 , | | 17 |
| 119 | Ka-band quadrature Doppler radar system with sub-millimeter resolution and sensitivity in measuring periodic movement 2010 , | | 2 |
| 118 | Emerging Technologies and Applications [TCC Tidbits]. <i>IEEE Microwave Magazine</i> , 2010 , 11, 121-122 | 1.2 | |
| 117 | New Challenges and New Opportunities! [TCC Tidbits]. <i>IEEE Microwave Magazine</i> , 2010 , 11, 118-118 | 1.2 | |
| 116 | MTT Members: We'd Like to Keep You Busy! [TCC Tidbits]. <i>IEEE Microwave Magazine</i> , 2010 , 11, 122-123 | 1.2 | |
| 115 | RF and Microwave Technologies in Japan [TCC Tidbits]. <i>IEEE Microwave Magazine</i> , 2010 , 11, 100-101 | 1.2 | |

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| 114 | Recent advances in wide bandgap semiconductor biological and gas sensors. <i>Progress in Materials Science</i> , 2010 , 55, 1-59 | 42.2 | 212 |
| 113 | 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 |
| 112 | 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 |
| 111 | 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 |
| 110 | Doppler radar non-contact measurement of rotational movement in both macro- and micro- scales 2009 , | | 2 |
| 109 | 190nm 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 |
| 108 | AlGa _N /Ga _N 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 | 1 | 2 |
| 107 | Recent Advances in Wide Bandgap Semiconductor Biological and Gas Sensors. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1202, 138 | | 0 |
| 106 | AlGa _N /Ga _N HEMT And ZnO nanorod-based sensors for chemical and bio-applications 2009 , | | 4 |
| 105 | Wireless Hydrogen Sensor Networks Using AlGa _N /Ga _N High Electron Mobility Transistor Based Differential Diodes Sensor. <i>ECS Transactions</i> , 2009 , 16, 127-137 | 1 | 2 |
| 104 | UV excimer laser drilled high aspect ratio submicron via hole. <i>Applied Surface Science</i> , 2009 , 256, 183-186.7 | | 4 |
| 103 | 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 | 2.8 | |
| 102 | Transmitting coil achieving uniform magnetic field distribution for planar wireless power transfer system 2009 , | | 53 |
| 101 | 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 |
| 100 | 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 |
| 99 | Packaging effects on the figure of merit of a CMOS cascode low-noise amplifier: Flip-chip versus wire-bond 2009 , | | 5 |
| 98 | Advances in Hydrogen, Carbon Dioxide, and Hydrocarbon Gas Sensor Technology Using Ga _N and ZnO-Based Devices. <i>Sensors</i> , 2009 , 9, 4669-94 | 3.8 | 79 |
| 97 | A 0.1 μ m 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 |

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|----|---|-----|-----|
| 96 | 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 |
| 95 | Packaging effects on a CMOS low-noise amplifier: Flip-chip versus wirebond 2009 , | | 5 |
| 94 | Software configurable 5.8 GHz radar sensor receiver chip in 0.13 μm CMOS for non-contact vital sign detection 2009 , | | 2 |
| 93 | A Loosely Coupled Planar Wireless Power System for Multiple Receivers. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 3060-3068 | 8.9 | 159 |
| 92 | 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 |
| 91 | Design of Multigigabit-per-Second Transceiver for Band-Limited High-Speed Data Communication Using DC-Free Signaling. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 1555-1564 | 4.1 | 1 |
| 90 | 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 |
| 89 | 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 |
| 88 | 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 |
| 87 | RF Characteristics of Room-Temperature-Deposited, Small Gate Dimension Indium Zinc Oxide TFTs. <i>Electrochemical and Solid-State Letters</i> , 2008 , 11, H60 | | 29 |
| 86 | Wideband mixed lumped-distributed-element 90° and 180° power splitters on silicon substrate for millimeter-wave applications 2008 , | | 3 |
| 85 | 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 |
| 84 | . <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2008 , 55, 2106-2115 | 3.9 | 11 |
| 83 | Complex signal demodulation and random body movement cancellation techniques for non-contact vital sign detection 2008 , | | 2 |
| 82 | 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 |
| 81 | 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 |
| 80 | ZnO and Related Materials for Sensors and Light-Emitting Diodes. <i>Journal of Electronic Materials</i> , 2008 , 37, 1426-1432 | 1.9 | 48 |
| 79 | 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 |

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|----|---|-----|----|
| 78 | A digitally controlled band-switching VCO using switching inductors and capacitors in 0.18 μm CMOS. <i>Microwave and Optical Technology Letters</i> , 2008 , 50, 1970-1973 | 1.2 | 0 |
| 77 | 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 |
| 76 | 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 |
| 75 | Wireless Non-Contact Detection of Heartbeat and Respiration Using Low-Power Microwave Radar Sensor 2007 , | | 22 |
| 74 | 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 |
| 73 | A Portable Noncontact Heartbeat and Respiration Monitoring System Using 5-GHz Radar. <i>IEEE Sensors Journal</i> , 2007 , 7, 1042-1043 | 4 | 57 |
| 72 | 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 |
| 71 | A Reconfigurable Filter Based on Doublet Configuration. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 , | | 12 |
| 70 | Analysis and design of AlGaIn/GaN HEMT resistive mixers. <i>Microwave and Optical Technology Letters</i> , 2007 , 49, 1152-1154 | 1.2 | 6 |
| 69 | A CMOS RF predistorter using diode-connected MOSFET. <i>Microwave and Optical Technology Letters</i> , 2007 , 49, 2055-2057 | 1.2 | 1 |
| 68 | A hydrogen leakage detection system using self-powered wireless hydrogen sensor nodes. <i>Solid-State Electronics</i> , 2007 , 51, 1018-1022 | 1.7 | 14 |
| 67 | 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 |
| 66 | 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 |
| 65 | ZnO Nanowires for Sensing and Device Applications. <i>ECS Transactions</i> , 2007 , 11, 23-33 | 1 | 1 |
| 64 | Role of grain boundaries in ZnO nanowire field-effect transistors. <i>Journal of Applied Physics</i> , 2007 , 101, 024301 | 2.5 | 13 |
| 63 | Optimal Carrier Frequency of Non-contact Vital Sign Detectors 2007 , | | 50 |
| 62 | . <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 , | | 8 |
| 61 | 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 |

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|----|--|-----|-----|
| 60 | Microwave and millimeter-wave Doppler radar heart sensing 2007 , | | 2 |
| 59 | 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 |
| 58 | 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 |
| 57 | 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</i> , 2006 , 22, 39-46 | | 2 |
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| 55 | 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 |
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