Peter M Asbeck

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.

61 4,110 130 37 h-index g-index citations papers 4,908 5.56 138 3.5 L-index avg, IF ext. citations ext. papers

| # | Paper | IF | Citations |
|-----|--|----------------------------|-----------|
| 130 | Millimeter-Wave Power Amplifier Integrated Circuits for High Dynamic Range Signals. <i>IEEE Journal of Microwaves</i> , 2021 , 1, 299-316 | | 17 |
| 129 | Neural recording and stimulation using wireless networks of microimplants. <i>Nature Electronics</i> , 2021 , 4, 604-614 | 28.4 | 17 |
| 128 | Interconnect effects on thermal resistance of CMOS-SOI transistors in microwave power integrated circuits. <i>Solid-State Electronics</i> , 2021 , 186, 108149 | 1.7 | O |
| 127 | Intrinsically Linear Transistor for Millimeter-Wave Low Noise Amplifiers. <i>Nano Letters</i> , 2020 , 20, 2812-2 | 8 20 .5 | 5 |
| 126 | . IEEE Journal of Solid-State Circuits, 2020 , 1-1 | 5.5 | 12 |
| 125 | Power Amplifiers for mm-Wave 5G Applications: Technology Comparisons and CMOS-SOI Demonstration Circuits. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 3099-3109 | 4.1 | 52 |
| 124 | Synthesis Technique for Low-Loss mm-Wave T/R Combiners for TDD Front-Ends. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019 , 67, 1030-1038 | 4.1 | 8 |
| 123 | Adaptive Cancellation of Digital Power Amplifier Receive Band Noise for FDD Transceivers. <i>IEEE Microwave and Wireless Components Letters</i> , 2019 , 29, 59-61 | 2.6 | 1 |
| 122 | . IEEE Transactions on Microwave Theory and Techniques, 2018 , 66, 1339-1348 | 4.1 | 27 |
| 121 | 28 GHz Doherty Power Amplifier in CMOS SOI With 28% Back-Off PAE. <i>IEEE Microwave and Wireless Components Letters</i> , 2018 , 28, 446-448 | 2.6 | 52 |
| 120 | Comparison of pMOS and nMOS 28 GHz high efficiency linear power amplifiers in 45 nm CMOS SOI 2018 , | | 15 |
| 119 | A 45 % PAE pMOS Power Amplifier for 28GHz Applications in 45nm SOI 2018 , | | 7 |
| 118 | Voltage Mode Doherty Power Amplifier. <i>IEEE Journal of Solid-State Circuits</i> , 2017 , 52, 1295-1304 | 5.5 | 34 |
| 117 | Compact Modeling of Distributed Effects in 2-D Vertical Tunnel FETs and Their Impact on DC and RF Performances. <i>IEEE Journal on Exploratory Solid-State Computational Devices and Circuits</i> , 2017 , 3, 18-26 | 2.4 | 6 |
| 116 | . IEEE Journal of Solid-State Circuits, 2017 , 52, 1185-1195 | 5.5 | 5 |
| 115 | A Class-G Voltage-Mode Doherty Power Amplifier. <i>IEEE Journal of Solid-State Circuits</i> , 2017 , 52, 3348-33 | 3 <i>6</i> 90 ₅ | 34 |
| 114 | Multigate-Cell Stacked FET Design for Millimeter-Wave CMOS Power Amplifiers. <i>IEEE Journal of Solid-State Circuits</i> , 2016 , 51, 2027-2039 | 5.5 | 44 |

(2015-2016)

| 113 | Techniques for Power Dynamic Range and Back-Off Efficiency Improvement in CMOS Digitally Controlled Polar Transmitters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 1-12 | 4.1 | 1 |
|--------------------------|---|-----|--------------------|
| 112 | ET Comes of Age: Envelope Tracking for Higher-Efficiency Power Amplifiers. <i>IEEE Microwave Magazine</i> , 2016 , 17, 16-25 | 1.2 | 68 |
| 111 | Characterization of interface defects in ALD Al2O3/p-GaSb MOS capacitors using admittance measurements in range from kHz to GHz. <i>Solid-State Electronics</i> , 2016 , 118, 18-25 | 1.7 | 5 |
| 110 | 15 GHz 25 dBm multigate-cell stacked CMOS power amplifier with 32 % PAE and B0 dB gain for 5G applications 2016 , | | 10 |
| 109 | Analysis of Temperature Dependent Effects on IIV Characteristics of Heterostructure Tunnel Field Effect Transistors. <i>IEEE Journal of the Electron Devices Society</i> , 2016 , 4, 416-423 | 2.3 | 2 |
| 108 | High-Order Modulation Transmission Through Frequency Quadrupler Using Digital Predistortion. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016 , 64, 1896-1910 | 4.1 | 16 |
| 107 | Series power combining: Enabling techniques for Si/SiGe millimeter-wave power amplifiers 2016, | | 6 |
| 106 | High-power, high-efficiency digital polar doherty power amplifier for cellular applications in SOI CMOS 2016 , | | 3 |
| 105 | A PMOS mm-wave power amplifier at 77 GHz with 90 mW output power and 24% efficiency 2016 , | | 25 |
| | | | |
| 104 | A 45-GHz Si/SiGe 256-QAM transmitter with digital predistortion 2015 , | | 9 |
| 104 | A 45-GHz Si/SiGe 256-QAM transmitter with digital predistortion 2015, Frequency quadrupling transmitter architecture with digital predistortion for high-order modulation signal transmission 2015, | | 9 |
| | Frequency quadrupling transmitter architecture with digital predistortion for high-order | 4.1 | |
| 103 | Frequency quadrupling transmitter architecture with digital predistortion for high-order modulation signal transmission 2015, Transmission of Signals With Complex Constellations Using Millimeter-Wave Spatially Power-Combined CMOS Power Amplifiers and Digital Predistortion. <i>IEEE Transactions on Microwave</i> | 4.1 | 3 |
| 103 | Frequency quadrupling transmitter architecture with digital predistortion for high-order modulation signal transmission 2015, Transmission of Signals With Complex Constellations Using Millimeter-Wave Spatially Power-Combined CMOS Power Amplifiers and Digital Predistortion. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 2364-2374 Modeling of Deterministic Output Emissions of Power Amplifiers Into Adjacent Receive Bands. <i>IEEE</i> | | 3 |
| 103 | Frequency quadrupling transmitter architecture with digital predistortion for high-order modulation signal transmission 2015, Transmission of Signals With Complex Constellations Using Millimeter-Wave Spatially Power-Combined CMOS Power Amplifiers and Digital Predistortion. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 2364-2374 Modeling of Deterministic Output Emissions of Power Amplifiers Into Adjacent Receive Bands. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 1250-1262 Concurrent Dual-Band Digital Predistortion With a Single Feedback Loop. <i>IEEE Transactions on</i> | 4.1 | 3 21 6 |
| 103 102 101 | Frequency quadrupling transmitter architecture with digital predistortion for high-order modulation signal transmission 2015, Transmission of Signals With Complex Constellations Using Millimeter-Wave Spatially Power-Combined CMOS Power Amplifiers and Digital Predistortion. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2364-2374 Modeling of Deterministic Output Emissions of Power Amplifiers Into Adjacent Receive Bands. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1250-1262 Concurrent Dual-Band Digital Predistortion With a Single Feedback Loop. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 1556-1568 \$Q\$-Band Spatially Combined Power Amplifier Arrays in 45-nm CMOS SOI. IEEE Transactions on | 4.1 | 3 21 6 17 |
| 103 102 101 100 | Frequency quadrupling transmitter architecture with digital predistortion for high-order modulation signal transmission 2015, Transmission of Signals With Complex Constellations Using Millimeter-Wave Spatially Power-Combined CMOS Power Amplifiers and Digital Predistortion. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 2364-2374 Modeling of Deterministic Output Emissions of Power Amplifiers Into Adjacent Receive Bands. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 1250-1262 Concurrent Dual-Band Digital Predistortion With a Single Feedback Loop. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 1556-1568 \$Q\$-Band Spatially Combined Power Amplifier Arrays in 45-nm CMOS SOI. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015, 63, 1937-1950 Projected Performance of Heterostructure Tunneling FETs in Low Power Microwave and mm-Wave | 4.1 | 3 21 6 17 |

| 95 | Improved Envelope Injection and Termination (EIT) RF Power Amplifier With Envelope Equalization for Mobile Terminal Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014 , 62, 341-351 | 4 |
|----|---|-----|
| 94 | Characterization of Intermodulation and Memory Effects Using Offset Multisine Excitation. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014 , 62, 645-657 | 16 |
| 93 | Novel Technique for Wideband Digital Predistortion of Power Amplifiers With an Under-Sampling ADC. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2014 , 62, 2604-2617 4.1 | 53 |
| 92 | Multi-Drive Stacked-FET Power Amplifiers at 90 GHz in 45 nm SOI CMOS. <i>IEEE Journal of Solid-State Circuits</i> , 2014 , 49, 1148-1157 | 51 |
| 91 | A CMOS 45 GHz power amplifier with output power > 600 mW using spatial power combining 2014 , | 7 |
| 90 | Spatially power-combined W-band power amplifier using stacked CMOS 2014 , | 16 |
| 89 | Analysis of heat dissipation of epitaxial graphene devices on SiC. <i>Solid-State Electronics</i> , 2014 , 101, 44-49 _{1.7} | 5 |
| 88 | Active Millimeter-Wave Phase-Shift Doherty Power Amplifier in 45-nm SOI CMOS. <i>IEEE Journal of Solid-State Circuits</i> , 2013 , 48, 2338-2350 | 53 |
| 87 | Analysis and Design of Stacked-FET Millimeter-Wave Power Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013 , 61, 1543-1556 | 148 |
| 86 | Lateral Graphene Heterostructure Field-Effect Transistor. <i>IEEE Electron Device Letters</i> , 2013 , 34, 1190-11,92 | 35 |
| 85 | A 42 to 47-GHz, 8-bit I/Q digital-to-RF converter with 21-dBm Psat and 16% PAE in 45-nm SOI CMOS 2013 , | 4 |
| 84 | All-Digital Cancellation Technique to Mitigate Receiver Desensitization in Uplink Carrier Aggregation in Cellular Handsets. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013 , 61, 4754-4765 | 20 |
| 83 | A 11% PAE, 15.8-dBm two-stage 90-GHz stacked-FET power amplifier in 45-nm SOI CMOS 2013 , | 11 |
| 82 | RF Power Amplifier Efficiency Enhancement by Envelope Injection and Termination for Mobile Terminal Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2013 , 61, 878-889 | 10 |
| 81 | Superior electromagnetic interference shielding and dielectric properties of carbon nanotube composites through the use of high aspect ratio CNTs and three-roll milling. <i>Organic Electronics</i> , 2.5 2013 , 14, 1531-1537 | 70 |
| 80 | A 2-Bit, 24 dBm, Millimeter-Wave SOI CMOS Power-DAC Cell for Watt-Level High-Efficiency, Fully Digital m-ary QAM Transmitters. <i>IEEE Journal of Solid-State Circuits</i> , 2013 , 48, 1126-1137 | 52 |
| 79 | Digital predistortion of envelope-tracking power amplifiers under average power back-off and long-term average power efficiency for base-station applications. <i>International Journal of O.8 Microwave and Wireless Technologies</i> , 2013 , 5, 171-177 | 3 |
| 78 | All-digital cancellation technique to mitigate self-jamming in uplink carrier aggregation in cellular handsets 2013 , | 10 |

| 77 | A W-band stacked FET power amplifier with 17 dBm Psat in 45-nm SOI CMOS 2013 , | | 3 |
|----|--|-----|-----|
| 76 | A W-band stacked FET power amplifier with 17 dBm Psat in 45-nm SOI MOS 2013 , | | 5 |
| 75 | 0.7¶.8 GHz multiband digital polar transmitter using watt-class current-mode class-D CMOS power amplifier and digital envelope modulation technique for reduced spurious emissions. <i>International Journal of Microwave and Wireless Technologies</i> , 2013 , 5, 271-284 | 0.8 | 3 |
| 74 | A Combined Series-Parallel Hybrid Envelope Amplifier for Envelope Tracking Mobile Terminal RF Power Amplifier Applications. <i>IEEE Journal of Solid-State Circuits</i> , 2012 , 47, 1185-1198 | 5.5 | 81 |
| 73 | Digitally-Controlled Polar Transmitter Using a Watt-Class Current-Mode Class-D CMOS Power Amplifier and Guanella Reverse Balun for Handset Applications. <i>IEEE Journal of Solid-State Circuits</i> , 2012 , 47, 1104-1112 | 5.5 | 27 |
| 72 | A Distributed Bulk-Oxide Trap Model for \$hbox{Al}_{2} hbox{O}_{3}\$ InGaAs MOS Devices. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 2100-2106 | 2.9 | 123 |
| 71 | A Wideband CMOS/GaAs HBT Envelope Tracking Power Amplifier for 4G LTE Mobile Terminal Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 1321-1330 | 4.1 | 58 |
| 70 | An Envelope-Tracking CMOS-SOS Power Amplifier with 50% Overall PAE and 29.3 dBm Output Power for LTE Applications 2012 , | | 4 |
| 69 | Closed-Loop Digital Predistortion System With Fast Real-Time Adaptation Applied to a Handset WCDMA PA Module. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 604-618 | 4.1 | 34 |
| 68 | A 34% PAE, 18.6dBm 42월5GHz stacked power amplifier in 45nm SOI CMOS 2012 , | | 9 |
| 67 | A 9 mW, Q-Band Direct-Conversion I/Q Modulator in SiGe BiCMOS Process. <i>IEEE Microwave and Wireless Components Letters</i> , 2012 , 22, 327-329 | 2.6 | 4 |
| 66 | Linear operation of high-power millimeter-wave stacked-FET PAs in CMOS SOI 2012 , | | 2 |
| 65 | Critical design considerations for GaN-based microwave power varactors 2012, | | 3 |
| 64 | \$Q\$ -Band and \$W\$ -Band Power Amplifiers in 45-nm CMOS SOI. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 1870-1877 | 4.1 | 31 |
| 63 | Design of a Wideband High-Voltage High-Efficiency BiCMOS Envelope Amplifier for Micro-Base-Station RF Power Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2012 , 60, 1850-1861 | 4.1 | 18 |
| 62 | . IEEE Transactions on Circuits and Systems I: Regular Papers, 2012 , 59, 2111-2124 | 3.9 | 38 |
| 61 | Design of a 4-W Envelope Tracking Power Amplifier With More Than One Octave Carrier Bandwidth. <i>IEEE Journal of Solid-State Circuits</i> , 2012 , 47, 2298-2308 | 5.5 | 19 |
| 60 | Effects of surface micromesas on reverse leakage current in InGaN/GaN Schottky barriers. <i>Journal of Applied Physics</i> , 2012 , 112, 044505 | 2.5 | 4 |

| 59 | COMPUTATIONALLY EFFICIENT MODEL FOR UWB SIGNAL ATTENUATION DUE TO PROPAGATION IN TISSUE FOR BIOMEDICAL IMPLANTS. <i>Progress in Electromagnetics Research B</i> , 2012 , 38, 1-22 | 0.7 | 10 |
|----|--|-----------------|-----|
| 58 | 2012, | | 18 |
| 57 | Interface-State Modeling of \$hbox{Al}_{2}hbox{O}_{3}\$ IhGaAs MOS From Depletion to Inversion. **IEEE Transactions on Electron Devices**, 2012 , 59, 2383-2389 | 2.9 | 64 |
| 56 | Efficiency Enhancement of mm-Wave Power Amplifiers Using Envelope Tracking. <i>IEEE Microwave and Wireless Components Letters</i> , 2011 , 21, 157-159 | 2.6 | 20 |
| 55 | A Distributed Model for Border Traps in \$hbox{Al}_{2} hbox{O}_{3}-hbox{InGaAs}\$ MOS Devices. **IEEE Electron Device Letters*, 2011 , 32, 485-487 | 4-4 | 147 |
| 54 | Analysis of Reverse Leakage Current and Breakdown Voltage in GaN and InGaN/GaN Schottky Barriers. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 1986-1994 | 2.9 | 18 |
| 53 | Digitally Assisted Dual-Switch High-Efficiency Envelope Amplifier for Envelope-Tracking Base-Station Power Amplifiers. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2011 , 59, 2943-29 | 1 52 | 53 |
| 52 | Charge transfer region at the edge of metal contacts on graphene and its impact on contact resistance measurement 2011 , | | 1 |
| 51 | High Power Digitally-Controlled SOI CMOS Attenuator With Wide Attenuation Range. <i>IEEE Microwave and Wireless Components Letters</i> , 2011 , 21, 433-435 | 2.6 | 9 |
| 50 | Wideband high efficiency envelope tracking integrated circuit for micro-base station power amplifiers 2011 , | | 4 |
| 49 | A Q-Band Amplifier Implemented with Stacked 45-nm CMOS FETs 2011 , | | 39 |
| 48 | GaN Envelope Tracking Power Amplifier with More Than One Octave Carrier Bandwidth 2011 , | | 3 |
| 47 | A 45-GHz SiGe HBT amplifier at greater than 25 % efficiency and 30 mW output power 2011 , | | 13 |
| 46 | Border traps in Al2O3/In0.53Ga0.47As (100) gate stacks and their passivation by hydrogen anneals. <i>Applied Physics Letters</i> , 2010 , 96, 012906 | 3.4 | 163 |
| 45 | Design of Tunneling Field-Effect Transistors Based on Staggered Heterojunctions for Ultralow-Power Applications. <i>IEEE Electron Device Letters</i> , 2010 , 31, 431-433 | 4-4 | 94 |
| 44 | Analysis of Resistance Asymmetry Due to p-n Junctions in Graphene FETs. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1259, 1 | | 1 |
| 43 | Enhanced Electromagnetic Interference Shielding Through the Use of Functionalized Carbon-Nanotube-Reactive Polymer Composites. <i>IEEE Nanotechnology Magazine</i> , 2010 , 9, 464-469 | 2.6 | 93 |
| 42 | InGaN/GaN Schottky Diodes With Enhanced Voltage Handling Capability for Varactor Applications. IEEE Electron Device Letters, 2010 , 31, 1119-1121 | 4-4 | 16 |

(2007-2010)

| 41 | Self-consistent 1-D SchrdingerPoisson solver for IIII heterostructures accounting for conduction band non-parabolicity. <i>Solid-State Electronics</i> , 2010 , 54, 1257-1262 | 1.7 | 15 |
|----|--|-------------------|-----|
| 40 | A Watt-Level Stacked-FET Linear Power Amplifier in Silicon-on-Insulator CMOS. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 57-64 | 4.1 | 151 |
| 39 | Single-Ended and Differential Radial Power Combiners Implemented With a Compact Broadband Probe. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2010 , 58, 1565-1572 | 4.1 | 24 |
| 38 | Enhanced dielectric constants and shielding effectiveness of, uniformly dispersed, functionalized carbon nanotube composites. <i>Applied Physics Letters</i> , 2009 , 94, 243111 | 3.4 | 84 |
| 37 | PERFORMANCE COMPARISON OF SCALED III-V AND Si BALLISTIC NANOWIRE MOSFETs. International Journal of High Speed Electronics and Systems, 2009 , 19, 15-22 | 0.5 | |
| 36 | Modeling and Design of RF Amplifiers for Envelope Tracking WCDMA Base-Station Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2009 , 57, 2148-2159 | 4.1 | 39 |
| 35 | Atomically abrupt and unpinned Al2O3/In0.53Ga0.47As interfaces: Experiment and simulation. <i>Journal of Applied Physics</i> , 2009 , 106, 124508 | 2.5 | 78 |
| 34 | An analytical model for inductively coupled implantable biomedical devices with ferrite rods. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2009 , 3, 43-52 | 5.1 | 49 |
| 33 | A 25 dBm Digitally Modulated CMOS Power Amplifier for WCDMA/EDGE/OFDM With Adaptive Digital Predistortion and Efficient Power Control. <i>IEEE Journal of Solid-State Circuits</i> , 2009 , 44, 1883-18 | 39€ ^{.5} | 120 |
| 32 | High-Efficiency WCDMA Envelope Tracking Base-Station Amplifier Implemented With GaAs HVHBTs. <i>IEEE Journal of Solid-State Circuits</i> , 2009 , 44, 2629-2639 | 5.5 | 54 |
| 31 | PERFORMANCE COMPARISON OF SCALED III-V AND Si BALLISTIC NANOWIRE MOSFETs. Selected Topics in Electornics and Systems, 2009 , 15-22 | Ο | |
| 30 | Scaling of Nanowire Transistors. <i>IEEE Transactions on Electron Devices</i> , 2008 , 55, 2846-2858 | 2.9 | 112 |
| 29 | Open-Loop Digital Predistorter for RF Power Amplifiers Using Dynamic Deviation Reduction-Based Volterra Series. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 1524-1534 | 4.1 | 159 |
| 28 | Digital Predistortion for Envelope-Tracking Power Amplifiers Using Decomposed Piecewise Volterra Series. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2008 , 56, 2237-2247 | 4.1 | 98 |
| 27 | InP HBT millimeter-wave power amplifier implemented using planar radial power combiner 2008, | | 2 |
| 26 | Efficiency ehancement of W-CDMA base-station envelope tracking power amplifiers via load modulation. <i>Microwave and Optical Technology Letters</i> , 2007 , 49, 1954-1957 | 1.2 | 2 |
| 25 | Reduced temperature S-parameter measurements of 400+GHz sub-micron InP DHBTs. <i>Solid-State Electronics</i> , 2007 , 51, 870-881 | 1.7 | 5 |
| 24 | . IEEE Transactions on Electron Devices, 2007 , 54, 398-409 | 2.9 | 2 |

| 23 | Design of H-Bridge Class-D Power Amplifiers for Digital Pulse Modulation Transmitters. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2007 , 55, 2845-2855 | 4.1 | 63 |
|----|--|----------------|-----|
| 22 | A Monolithic High-Efficiency 2.4-GHz 20-dBm SiGe BiCMOS Envelope-Tracking OFDM Power Amplifier. <i>IEEE Journal of Solid-State Circuits</i> , 2007 , 42, 1271-1281 | 5.5 | 144 |
| 21 | H-Bridge Class-D Power Amplifiers for Digital Pulse Modulation Transmitters. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 , | | 10 |
| 20 | CMOS Outphasing Class-D Amplifier With Chireix Combiner. <i>IEEE Microwave and Wireless Components Letters</i> , 2007 , 17, 619-621 | 2.6 | 43 |
| 19 | Physical modeling of degenerately doped compound semiconductors for high-performance HBT design. <i>Solid-State Electronics</i> , 2006 , 50, 1440-1449 | 1.7 | 14 |
| 18 | A numerical Schrdinger P oisson solver for radially symmetric nanowire coredhell structures. <i>Solid-State Electronics</i> , 2006 , 50, 1732-1739 | 1.7 | 37 |
| 17 | Growth of InGaN HBTs by MOCVD. Journal of Electronic Materials, 2006, 35, 695-700 | 1.9 | 12 |
| 16 | Digital etching of III-N materials using a two-step Ar/KOH technique. <i>Journal of Electronic Materials</i> , 2006 , 35, 771-776 | 1.9 | 6 |
| 15 | Linearity Improvement of HBT-based Doherty Power Amplifiers Based on a Simple Analytical Model 2006 , | | 6 |
| 14 | An Improved Power-Added Efficiency 19-dBm Hybrid Envelope Elimination and Restoration Power Amplifier for 802.11g WLAN Applications. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006 , 54, 4086-4099 | 4.1 | 201 |
| 13 | A 20 dBm Linear RF Power Amplifier Using Stacked Silicon-on-Sapphire MOSFETs. <i>IEEE Microwave and Wireless Components Letters</i> , 2006 , 16, 684-686 | 2.6 | 33 |
| 12 | Linearity Improvement of HBT-Based Doherty Power Amplifiers Based on a Simple Analytical Model. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2006 , 54, 4479-4488 | 4.1 | 36 |
| 11 | A reusable microfluidic plate with alternate-choice architecture for assessing growth preference in tissue culture. <i>Journal of Neuroscience Methods</i> , 2005 , 144, 79-89 | 3 | 33 |
| 10 | Minority carrier transport properties of GalnNAs heterojunction bipolar transistors with 2% nitrogen. <i>Journal of Applied Physics</i> , 2004 , 95, 327-333 | 2.5 | 11 |
| 9 | ANALYSIS OF HIGH DC CURRENT GAIN STRUCTURES FOR GaN/InGaN/GaN HBTs. <i>International Journal of High Speed Electronics and Systems</i> , 2004 , 14, 825-830 | 0.5 | 1 |
| 8 | Long Time-Constant Trap Effects in Nitride Heterostructure Field Effect Transistors. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 622, 6281 | | 7 |
| 7 | Photoemission studies on heterostructure bipolar transistors. <i>Solid-State Electronics</i> , 1999 , 43, 1555-1 | 56 0 .7 | |
| 6 | Piezoelectric polarization associated with dislocations in wurtzite GaN. <i>Applied Physics Letters</i> , 1999 , 74, 573-575 | 3.4 | 51 |

LIST OF PUBLICATIONS

| 5 | HIGH SPEED CROSSPOINT SWITCHES. <i>Selected Topics in Electornics and Systems</i> , 1999 , 193-236 o | Ο |
|---|--|----|
| 4 | Development of HBT structure to minimize parasitic elements. <i>Solid-State Electronics</i> , 1995 , 38, 1691-1695 | 9 |
| 3 | Photoreflectance characterization of an InP/InGaAs heterojunction bipolar transistor structure. Applied Physics Letters, 1992, 61, 2066-2068 3-4 | 29 |
| 2 | Advanced GaAs-Based HBT Designs for Wireless Communications Systems39-77 | |
| 1 | Power Amplifier Approaches for High Efficiency and Linearity189-227 | 2 |