Viktor Krozer - DTU Orbit (07/06/2019)
Viktor Krozer

Research outputs:

**Molecular Spectroscopy With a Compact 557-GHz Heterodyne Receiver**
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

**Small- and large-signal modeling of InP HBTs in transferred-substrate technology**
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

**Broadband Packaging of Photodetectors for 100 Gb/s Ethernet Applications**
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

**Design of a ×4 subharmonic sub-millimeter wave diode mixer, based on an analytic expression for small-signal conversion admittance parameters**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review

**Physical based Schottky barrier diode modeling for THz applications**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review

**Filter designs based on coupled transmission line model for double split ring resonators**
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

**Twelve-bit 20-GHz reduced size pipeline accumulator in 0.25 μm SiGe:C technology for direct digital synthesiser applications**
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

**300 GHz Imaging System with 8 Meter Stand-off Distance and One-Dimensional Synthetic Image Reconstruction for Remote Detection of Material Defects**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

**300 GHz imaging with 8 meter stand-off distance and one-dimensional synthetic image reconstruction**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

**Backward-Wave Amplifier Realisation at 1000 GHz: Progress within EU FP7 OPTHER project**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

**Behavioral electromagnetic models of high-speed p-i-n photodiodes**
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

**Design and Fabrication of a 1 THz Backward Wave Amplifier**
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

**Improved External Base Resistance Extraction for Submicrometer InP/InGaAs DHBT Models**
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review
LiGA-based Slow Wave Structure for a THz Vacuum Amplifier
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2011 › Research › peer-review

ESA'S POLarimetric Airborne Radar Ice Sounder (POLARIS): design and first results
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Impedance Transformers
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2010 › Research › peer-review

Millimeter-wave Imaging Systems with Aperture Synthesis Techniques
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

Terahertz Imaging Systems With Aperture Synthesis Techniques
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Analysis of Hybrid-Integrated High-Speed Electro-Absorption Modulated Lasers Based on EM/Circuit Co-simulation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

Compact Front-end Prototype for Next Generation RFI-rejecting Polarimetric L-band Radiometer
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

GaAs Wideband Low Noise Amplifier Design for Breast Cancer Detection System
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

Implementation and Test of POLARIS, a P-band Polarimetric Airborne Radar Ice Sounder
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research

InP DHBT MMICs for millimeter-wave front-ends
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

Oscillator Phase Noise: A Geometrical Approach
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Packaging of photodetector modules for 100 Gbit/s applications using electromagnetic simulations
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research

POLARIS: ESA’s airborne ice sounding radar front-end design, performance assessment and first results
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

Submillimeter Wave Antenna With Slow Wave Feed Line
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review
Terahertz Camera for Remote Detection of Material Defects and Biological and Chemical Substances: Design Study
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2009 › Research › peer-review

Traveling-Wave Tube Amplifier for THz Frequencies
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research

Ultra Wideband Sensing System of Breast Tumors
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2009 › Research

Wireless and photonic high-speed communication technologies, circuits and design tools
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

A high conversion-gain Q-band InP DHBT subharmonic mixer using LO frequency doubler
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Analysis and design of lumped element Marchand baluns
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research

Analytical model for double split ring resonators with arbitrary ring width
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Design and performance Assessment of an Airborne Ice Sounding Radar Front-End
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research

Design and performance of an Airborne Ice Sounding Radar Front-End
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research

Electromagnetic modeling and optimization of packaged photodetector modules for 100 Gbit/s applications
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research

Implementation of an airborne P-band ice sounding radar
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research

Improvement of Stopband Performance in Parallel-Coupled Bandpass Filters Using Quasi-Lumped Elements
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review

Packaging Aspects of Photodetector Modules for 100 Gbit/s Ethernet Applications
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research

P-band polarimetric ice sounder: concept and first results
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research

Power Amplifier Design for E-band Wireless System Communications
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research
Submicron InP DHBT technology for high-speed high-swing mixed-signal ICs
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review

47.8 GHz InPHBT quadrature VCO with 22% tuning range
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Analytical Model of Planar Double Split Ring Resonator
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

A Novel Method for HBT Intrinsic Collector Resistance Extraction from S-parameters
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Broadband Impedance Transformer Based on Asymmetric Coupled Transmission Lines in Nonhomogeneous Medium
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Coupled Transmission Lines as Impedance Transformer
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

De-embedding and Modelling of pnp SiGe HBTs
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Development of an airborne ice sounding radar
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Development of an airborne ice sounding radar front-end
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

EM Simulation Accuracy Enhancement for Broadband Modeling of On-Wafer Passive Components
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Miniature wideband filter based on coupled-line sections and quasi-lumped element resonator
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Optimization of Packaging for PIN Photodiode Modules for 100Gbit/s Ethernet Applications
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

P-band ice sounding radar demonstrator development; Instrument electronics design
Research output: Book/Report › Report – Annual report year: 2007 › Research › peer-review
P-sounder: an airborne P-band ice sounding radar
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

AM to PM noise conversion in a cross-coupled quadrature harmonic oscillator
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

A Novel HBT Frequency Doubler Design for Millimeter-Wave Applications
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Compact RF Front-End Components for Ice-Sounding Radars
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Conversion Matrix Analysis of GaAs HEMT Active Gilbert Cell Mixers
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Design and modelling of frequency multipliers based on commercial Schottky diodes
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Design of an airborne P-band ice sounding radar
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research

Design of a planar Schottky diode based 200 GHz frequency multiplier
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Design of a terahertz CW photomixer based on PIN and superlattice PIN devices
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Development of Broadband Dual-Linear Polarisation Probe-Fed Microstrip Patch Antennas
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Millimeter-Wave Integrated Circuit Design for Wireless and Radar Applications
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Miniature Microwave Bandpass Filter Based on EBG Structures
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Modeling of High-Speed InP DHBTs using Electromagnetic Simulation Based De-embedding
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Numerical studies of stripline-typed photonic band-gap (PBG) structures using finite difference time domain (FDTD) method
Ultra-broadband Nonlinear Microwave Monolithic Integrated Circuits in SiGe, GaAs and InP
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2006
Research › peer-review

Analysis and Design of Wide-Band SiGe HBT Active Mixers
Research output: Contribution to journal › Journal article – Annual report year: 2005
Research › peer-review

Analysis of photonic band-gap structures in stratified medium
Research output: Contribution to journal › Journal article – Annual report year: 2005
Research › peer-review

Analytical modelling of THz frequency multipliers and mixers based on Schottky diodes
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2005
Research › peer-review

Applications of Electromagnetic Bandgap and Tunable Left-Handed Materials
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2005
Research › peer-review

Design and analysis of planar printed microwave and PBG filters using an FDTD method (vol 36, pg 97, 2005)
Research output: Contribution to journal › Journal article – Annual report year: 2005
Research › peer-review

Large-signal PIN diode model for ultra-fast photodetectors
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2005
Research › peer-review

Modelling of THz power generation based on ultra-fast PIN photodiodes
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2005
Research › peer-review

Nonlinear analysis of a cross-coupled quadrature harmonic oscillator
Research output: Contribution to journal › Journal article – Annual report year: 2005
Research › peer-review

RF MEMS Without Moving Parts: Applications and Opportunities
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2005
Research › peer-review

Study of stratified dielectric slab medium structures using pseudo-spectral time domain (PSTD) algorithm
Research output: Contribution to journal › Journal article – Annual report year: 2005
Research › peer-review

Substrate Effects in Wideband SiGe HBT Mixer Circuits
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2005
Research › peer-review

Trade-off between phase-noise and signal quadrature in unilaterally coupled oscillators
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2005
Research › peer-review

Uncertainty Estimation in SiGe HBT Small-Signal Modeling
Research output: Chapter in Book/Report/Conference proceeding – Article in proceedings – Annual report year: 2005
Research › peer-review
Wideband Monolithic Microwave Integrated Circuit Frequency Converters with GaAs mHEMT Technology
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

A Design Of Feeding Network For A Dual-Linear Polarization, Stacked, Probe-Fed Microstrip Patch Antenna Array
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Analysis of photonic band-gap (PBG) structures using the FDTD method
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

A new THz-photomixer based on a n-i-p-n doping superlattice
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Broadband matching of dual-linear polarisation stacked probe-fed microstrip patch antenna
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Conversion Matrix Analysis of SiGe HBT Gilbert Cell Mixers
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Design and analysis of planar printed microwave and PBG filters using an FDTD method
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Nonlinear Analysis of a Cross-Coupled Quadrature Harmonic Oscillator
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Optical Far-IR Wave Generation - State-of-the-Art and Advanced Device Structures
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Ultra-Wideband Monolithic Microwave Integrated Circuit Solutions in {SiGe
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Design and Analysis of Planar Printed Microwave Filters using FDTD Method in Conjunction with an Unsplit-Anisotropic Perfectly Matched Layer Technique
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research › peer-review

Optical Far-IR wave Generation - An ESA review study
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research › peer-review

THz LO Generation with Frequency Multipliers
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research › peer-review

Ultra-wideband MMICs for remote sensing applications
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research › peer-review
Analysis of Photonic Band-Gap (PBG) Structure using Finite Difference Time Domain (FDTD) Algorithm
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research › peer-review

A Non-Uniform Pseudo-Spectral Time Domain (PSTD) Method in One-Dimensional Applications
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research › peer-review

Applications of Pseudo-Spectral Time Domain Method in Conjunction with Unsplit Anisotropic PML Technique
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research › peer-review

Broadband Thermoelectric Microwave Power Sensors using GaAs Foundry Process
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research › peer-review

Investigation of Interface Charges at the Heterojunction Discontinuity in HBT Devices
Research output: Contribution to Journal › Journal article – Annual report year: 2002 › Research › peer-review

Limitations in THz Power Generation with Schottky Diode Varactor Frequency Multipliers
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research › peer-review

Modelling of Planar Schottky Diodes for Millimeter-Wave and Submillimeter-Wave Circuit Applications
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research › peer-review

Projects:

Dynamic switching of W-band signals for Active and Reconfigurable delivery
Project: PhD

Methods for stability and Noise Analysis of Coupled Oscillating Systems
Project: PhD

Integrated Control ofPacket-Oriented Optical Network Systems
Project: PhD

Microwave Oscillators with Low Phase Noise and Ultra-High Stability
Project: PhD

Highly Compact Radar Circuits Utilizing LTCC Technology
Project: PhD

Design of Microwave Camera for Breast Cancer Detection
Project: PhD

Millimeter-Wave Integrated Circuits for Systems in Package
Project: PhD
Microwave and Millimeter-Wave Signal Power Generation
Project: PhD

High Frequency Resonators for Liquid based Bio/Chemical Diagnostics and Monitoring Applications
Project: PhD

Microwave Instrument for Vital Signs Detection and Monitoring
Project: PhD