Luisa Ottaviano - DTU Orbit (13/01/2018)

Ottaviano, Luisa
luot@fotonik.dtu.dk

Department of Photonics Engineering - Academic Technician, Former

Publications:

Low temperature bonding of heterogeneous materials using Al₂O₃ as an intermediate layer
Publication: Research - peer-review › Journal article – Annual report year: 2018

Characterization and optimization of a high-efficiency AlGaAs-On-Insulator-based wavelength converter for 64- and 256-QAM signals
Publication: Research - peer-review › Journal article – Annual report year: 2017

Fabrication and experimental demonstration of photonic crystal laser with buried heterostructure
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Lasers, switches and non-reciprocal elements based on photonic crystal Fano resonances
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Optical Time Domain Demultiplexing using Fano Resonance in InP Photonic Crystals
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2017

Photonic crystal Fano lasers and Fano switches
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Photonic crystal Fano resonances for realizing optical switches, lasers and non-reciprocal elements
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Towards Ultra-High Q Microresonators in High-Index Contrast AlGaAs-On-Insulator
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

An Ultra-Efficient Nonlinear Platform: AlGaAs-On-Insulator
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016
Threshold Characteristics of Slow-Light Photonic Crystal Lasers
Publication: Research - peer-review › Journal article – Annual report year: 2016

A Highly Efficient Nonlinear Platform: AlGaAs-On-Insulator
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

AlGaAs-On-Insulator Nanowire with 750 nm FWM Bandwidth, -9 dB CW Conversion Efficiency, and Ultrafast Operation Enabling Record Tbaud Wavelength Conversion
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

AlGaAs-On-Insulator nonlinear photonics
Pu, M., Ottaviano, L., Semenova, E. & Yvind, K. 2015
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Highly Efficient Four-Wave Mixing in an AlGaAs-On-Insulator (AlGaAsOI) Nano-Waveguide
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Highly Sensitive Photonic Crystal Cavity Laser Noise Measurements using Bayesian Filtering
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Slow-light effects in photonic crystal membrane lasers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Thermal analysis of line-defect photonic crystal lasers
Publication: Research - peer-review › Journal article – Annual report year: 2015

Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Tailored design of WDM filters in BCB embedded PhC membranes
Malaguti, S., Bellanca, G., Ottaviano, L., Yvind, K., Combré, S., Rossi, A. D. & Trillo, S. 2013 In : Optical and Quantum Electronics. 45, 4, p. 329-342
Publication: Research - peer-review › Journal article – Annual report year: 2013

High-speed photodetectors in a photonic crystal platform
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012
Strip detector for nanoscale resolution
Publication: Research › Sound/Visual production (digital) – Annual report year: 2009

Projects:

Fabrication and characterization of novel nanophotonic structures with electrical control
Marchevsky, A., Yvind, K., Mørk, J. & Ottaviano, L.
01/10/2016 → 30/09/2019
Project: PhD

Ultrahigh-speed Si-integrated on-chip laser
Tandukar, S., Chung, I. & Ottaviano, L.
15/11/2015 → 14/11/2018
Project: PhD

Photonic crystal Fano structures
Bekele, D. A., Mørk, J., Ottaviano, L. & Yvind, K.
15/05/2015 → 14/05/2018
Project: PhD

Ultrahigh-speed hybrid III-C-on-Si lasers
Topic, V., Chung, I. & Ottaviano, L.
15/03/2015 → 14/03/2018
Project: PhD

QUantum dot Energy level Engineering for laser applicationNs on InP and Si platforms
01/06/2013 → 31/08/2017
Project

Compact Otdm/wdm optical receiVeRs based on photoNic crystal Integrated
01/07/2012 → 01/07/2015
Project