Research outputs:

**Spectrally and temporally resolved resonance shifts of a photonic crystal cavity switch**
Research output: Research - peer-review › Article in proceedings – Annual report year: 2016

**The local density of optical states of a metasurface**
Research output: Research - peer-review › Journal article – Annual report year: 2016

**Ultrafast coherent dynamics of a photonic crystal all-optical switch**
Research output: Research - peer-review › Journal article – Annual report year: 2016

**Dispersion of guided modes in two-dimensional split ring lattices**
Research output: Research - peer-review › Journal article – Annual report year: 2014

**Slow-light-enhanced gain in active photonic crystal waveguides**
Research output: Research - peer-review › Journal article – Annual report year: 2014

**Temporal dynamics of all-optical switching in Photonic Crystal Cavity**
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

**Calibrating and Controlling the Quantum Efficiency Distribution of Inhomogeneously Broadened Quantum Rods by Using a Mirror Ball**
Research output: Research - peer-review › Journal article – Annual report year: 2013

**Optical properties of two-dimensional magnetoelectric point scattering lattices**
Research output: Research - peer-review › Journal article – Annual report year: 2013

**Active Photonic Crystal Waveguides**
Research output: Research › Ph.D. thesis – Annual report year: 2012

**Enhanced Gain in Photonic Crystal Amplifiers**
Research output: Research - peer-review › Article in proceedings – Annual report year: 2012

**Nonlinear carrier dynamics in a quantum dash optical amplifier**
Research output: Research - peer-review › Journal article – Annual report year: 2012

**Slow-light enhancement of spontaneous emission in active photonic crystal waveguides**
Research output: Research - peer-review › Conference article – Annual report year: 2012

**Active III-V Semiconductor Photonic Crystal Waveguides**
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

**Enhanced Gain in Slow-Light Photonic Crystal Waveguides with Embedded Quantum Dots**
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

**Slow light and pulse propagation in semiconductor waveguides**
Research output: Research › Ph.D. thesis – Annual report year: 2010
A scheme comparison of Autler-Townes based slow light in inhomogeneously broadened quantum dot media
Research output: Research - peer-review | Journal article – Annual report year: 2010

Pulse delay measurements in cascaded quantum well gain and absorber media
Research output: Research - peer-review | Journal article – Annual report year: 2010

Slow and fast light in semiconductor waveguides
Research output: Research - peer-review | Journal article – Annual report year: 2010

A method to achieve large tunable delays based on EIT in an inhomogeneously broadened quantum dot medium
Research output: Research - peer-review | Article in proceedings – Annual report year: 2009

Control of ultrafast pulse propagation in semiconductor components: [invited]
Research output: Research - peer-review | Conference article – Annual report year: 2009

Reducing the impact of inhomogeneous broadening on quantum dot based electromagnetically induced transparency
Research output: Research - peer-review | Journal article – Annual report year: 2009

Slow and fast light: Controlling the speed of light using semiconductor waveguides
Research output: Research - peer-review | Journal article – Annual report year: 2009

Slow and fast light in semiconductor structures: physics and applications: [invited]
Research output: Research - peer-review | Conference abstract for conference – Annual report year: 2009

Carrier dynamics and slow light in semiconductor nanostructures
Research output: Research - peer-review | Article in proceedings – Annual report year: 2008

Experimental observation of pulse delay and speed-up in cascaded quantum well gain and absorber media
Research output: Research - peer-review | Article in proceedings – Annual report year: 2008

Nanofotonik: Nanofotonik kaster lys over fremtiden
Research output: Research - peer-review | Book chapter – Annual report year: 2008

Pulse delay and advancement of ultrafast pulses in semiconductor waveguides
Research output: Research - peer-review | Conference abstract for conference – Annual report year: 2008

Pulse Delay and Speed-up of Ultra Fast Pulses in an Absorbing Quantum Well Medium
Research output: Research - peer-review | Article in proceedings – Annual report year: 2008

Nanoteknologi i masseproduktion
Research output: Research - peer-review | Book chapter – Annual report year: 2007

Slow light in selfassembled quantum dots
Research output: Research - peer-review | Poster – Annual report year: 2007

Slow light in semiconductor quantum dots
Research output: Research - peer-review | Conference abstract for conference – Annual report year: 2007

Slow light in semiconductor quantum dots
Research output: Research - peer-review | Poster – Annual report year: 2007
Slow light in semiconductor waveguides: theory and experiment
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2007

Slow light in semiconductor waveguides: Theory and experiment
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

Projects:

Characterization of pulse propagation in photonic crystal structures and ultrafast dynamics in quantum dots
Project: PhD

Processing and Characterization of Quantum dot Devices
Project: PhD

Governing the speed of light
Project: Research

Quantum dot structures enabling light slow-down and amplification
Project: Research

Activities:

International Nano-Optoelectronics Workshop (iNOW)
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.