Publications:

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

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

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

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

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

Temporal dynamics of all-optical switching in Photonic Crystal Cavity
Publication: 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
Publication: Research - peer-review › Journal article – Annual report year: 2013

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

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

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

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

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

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

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

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

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

Slow and fast light in semiconductor waveguides
Publication: 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
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

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

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

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

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

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

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

Pulse delay and advancement of ultrafast pulses in semiconductor waveguides
Publication: 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
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Nanoteknologi i masseproduktion
Publication: Research - peer-review › Book chapter – Annual report year: 2007

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

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

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

Slow light in semiconductor waveguides: Theory and experiment
Publication: 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

Governing the speed of light
Project

Processing and Characterization of Quantum dot Devices
Project: PhD

Quantum dot structures enabling light slow-down and amplification
Project

Activities:

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