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
Hansen, P. L. & Koenderink, A. F. 2016 In : Scientific Reports. 6, 10 p., 20655
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

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

Slow light in semiconductor quantum dots

Slow light in semiconductor quantum dots

Slow light in semiconductor waveguides: theory and experiment

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
**Processing and Characterization of Quantum dot Devices**
Forskningsrådsfinansiering
15/06/2006 → 26/05/2010

**GOSPEL: Governing the speed of light**
Mørk, J., Gregersen, N., Yvind, K., Kristensen, P. T., Hansen, P. L., Semenova, E., Xue, W., Pu, M. & Larsson, D.
Forsk. EU - Rammeprogram
01/09/2008 → 31/12/2011

**QUEST: Quantum dot structures enabling light slow-down and amplification**
Forskningsrådene - STVF
01/01/2006 → 30/06/2012

**Activities:**

**International Nano-Optoelectronics Workshop (iNOW)**
Hansen, P. L. (Participant)
10 Aug 2009 → 14 Aug 2009

Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.