Publications:

**A broadband tapered nanocavity for efficient nonclassical light emission**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Broadband Purcell enhancement in highly efficient photonic nanowire-based single-photon sources**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

**Fundamental Limits to Coherent Scattering and Photon Coalescence from Solid-State Quantum Emitters [arXiv]**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Modelling exciton-phonon interactions in optically driven quantum dots: Topical Review**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Optical signatures of non-Markovian behavior in open quantum systems**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Few-photon Non-linearities in Nanophotonic Devices for Quantum Information Technology**
Publication: Research › Ph.D. thesis – Annual report year: 2015

**Highly indistinguishable photons from a QD-microcavity with a large Purcell-factor**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

**Observation of resonance fluorescence and the Mollow triplet from a coherently driven site-controlled quantum dot**
Publication: Research - peer-review › Journal article – Annual report year: 2015

**Scattering of two photons on a quantum emitter in a one-dimensional waveguide: exact dynamics and induced correlations**
Publication: Research - peer-review › Journal article – Annual report year: 2015

**Strong nonlinearity-induced correlations for counterpropagating photons scattering on a two-level emitter**
Publication: Research - peer-review › Journal article – Annual report year: 2015

**Two-photon interference from a quantum dot-microcavity: Persistent pure-dephasing and suppression of time-jitter**
Publication: Research - peer-review › Journal article – Annual report year: 2015

**Error Distributions on Large Entangled States with Non-Markovian Dynamics**
Publication: Research - peer-review › Journal article – Annual report year: 2014

**Indistinguishable photons from a quantum dot--cavity system: competing roles of timing-jitter and pure-dephasing**
Publication: Research - peer-review › Poster – Annual report year: 2014

**Indistinguishable single photons generated by quantum dots in adiabatic micropillar cavities**
Publication: Research - peer-review › Poster – Annual report year: 2014
Temperature-Dependent Mollow Triplet Spectra from a Single Quantum Dot: Rabi Frequency Renormalization and Sideband Linewidth Insensitivity
Publication: Research - peer-review › Journal article – Annual report year: 2014

Two-photon interference from a quantum dot-microcavity: Persistent pure-dephasing and suppression of time-jitter
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Projects:

Nanophotonic devices for quantum information technology
Project: PhD