Publications:

**Interference-exact radiative transfer equation**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Benchmarking five computational methods for analyzing large photonic crystal membrane cavities**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

**Comparison of Five Computational Methods for Computing Q Factors in Photonic Crystal Membrane Cavities**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

**Comparison of Five Numerical Methods for Computing Quality Factors and Resonance Wavelengths in Photonic Crystal Membrane Cavities**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

**Enhanced Photon Extraction from a Nanowire Quantum Dot Using a Bottom-Up Photonic Shell**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Generalized noise terms for the quantized fluctuational electrodynamics: Paper**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Modeling open nanophotonic systems using the Fourier modal method: Generalization to 3D Cartesian coordinates**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Modelling open nanophotonic structures using the Fourier modal method in infinite domains**
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

**Photon mass drag and the momentum of light in a medium**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Quantized fluctuational electrodynamics for three-dimensional plasmonic structures**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Modeling cavities exhibiting strong lateral confinement using open geometry Fourier modal method**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

**Open-geometry Fourier modal method: modeling nanophotonic structures in infinite domains**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Photon momentum and optical forces in cavities**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

**Quantum description of light propagation in generalized media**
Publication: Research - peer-review › Journal article – Annual report year: 2016

**Commutation-relation-preserving ladder operators for propagating optical fields in nonuniform lossy media**
Publication: Research - peer-review › Journal article – Annual report year: 2015
Activities:

Modelling and design of cavities exhibiting high Q and strong mode confinement
Activity: Talks and presentations › Conference presentations