Research outputs:

Cavity-waveguide interplay in optical resonators and its role in optimal single-photon sources
Research output: Research - peer-review › Journal article – Annual report year: 2018

Driving-induced population trapping and linewidth narrowing via the quantum Zeno effect
Research output: Research - peer-review › Journal article – Annual report year: 2018

Intrinsic and environmental effects on the interference properties of a high-performance quantum dot single-photon source
Research output: Research - peer-review › Journal article – Annual report year: 2018

Phonon limit to simultaneous near-unity efficiency and indistinguishability in semiconductor single photon sources
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Phonon scattering inhibits simultaneous near-unity efficiency and indistinguishability in semiconductor single-photon sources
Research output: Research - peer-review › Journal article – Annual report year: 2017

Probing Electron-Phonon Interaction through Two-Photon Interference in Resonantly Driven Semiconductor Quantum Dots
Research output: Research - peer-review › Journal article – Annual report year: 2017

Protocol for generating multiphoton entangled states from quantum dots in the presence of nuclear spin fluctuations
Research output: Research - peer-review › Journal article – Annual report year: 2017

Energy transfer in structured and unstructured environments: Master equations beyond the Born-Markov approximations
Research output: Research - peer-review › Journal article – Annual report year: 2016

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

Phonon limit to simultaneous near-unity efficiency and indistinguishability in semiconductor single photon sources
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Quantum correlations of light and matter through environmental transitions
Research output: Research - peer-review › Journal article – Annual report year: 2016

Projects:

Photonic quantum technologies in structured environments
Project: PhD

An open quantum systems approach to few photon scattering in photonic devices
Project: PhD