Iles-Smith, Jake

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**
Iles-Smith, J., McCutcheon, D. P. S., Nazir, A. & Mørk, J. 2017 In : Nature Photonics. 11, 8, p. 521-+
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
Iles-Smith, J. & Nazir, A. 2016 In : Optica. 3, 2, p. 207-211
Research output: Research - peer-review › Journal article – Annual report year: 2016

Projects:

Photonic quantum technologies in structured environments
Denning, E. V., Mørk, J., Iles-Smith, J. & Willatzen, M.
Grundforskningsfonden
01/02/2017 → 31/01/2020
Project: PhD

An open quantum systems approach to few photon scattering in photonic devices
Joanesarson, K. B., Mørk, J., Gregersen, N. & Iles-Smith, J.
Grundforskningsfonden
01/02/2017 → 31/01/2020
Project: PhD