Publications:

**Multi-stage generation of extreme ultraviolet dispersive waves by tapering gas-filled hollow-core anti-resonant fibers**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Curvature and position of nested tubes in hollow-core anti-resonant fibers**
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

**Generation of multiple VUV dispersive waves using a tapered gas-filled hollow-core anti-resonant fiber**
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

**Multiple soliton compression stages in mid-IR gas-filled hollow-core fibers**
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

**Soliton-plasma nonlinear dynamics in mid-IR gas-filled hollow-core fibers**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Soliton-plasma nonlinear dynamics in mid-IR gas-filled hollow-core fibers**
Publication: Communication › Comment/debate – Annual report year: 2018

**Toward single-mode UV to near-IR guidance using hollow-core anti-resonant silica fiber**
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

**Toward single-mode UV to near-IR guidance using hollow-core antiresonant silica fiber**
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2018

**Ultrafast Mid-IR Nonlinear Optics in Gas-filled Hollow-core Photonic Crystal Fibers**
Publication: Research › Ph.D. thesis – Annual report year: 2017

**A new photonic crystal fiber design on the high negative ultra-flattened dispersion for both X and Y polarization modes**
Publication: Research - peer-review › Journal article – Annual report year: 2016
Anisotropic anti-resonant elements gives broadband single-mode low-loss hollow-core fibers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

A Novel Low-Loss Diamond-Core Porous Fiber for Polarization Maintaining Terahertz Transmission
Publication: Research - peer-review › Journal article – Annual report year: 2016

A Novel Low Loss, Highly Birefringent Photonic Crystal Fiber in THz Regime
Publication: Research - peer-review › Journal article – Annual report year: 2016

Antiresonant hollow core fiber with seven nested capillaries
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Low-Loss Hollow-Core Anti-Resonant Fibers With Semi-Circular Nested Tubes
Publication: Research - peer-review › Journal article – Annual report year: 2016

Low loss mid-IR transmission bands using silica hollow-core anisotropic anti-resonant fibers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Low-loss single-mode hollow-core fiber with anisotropic anti-resonant elements
Habib, S., Bang, O. & Bache, M. 2016 In : Optics Express. 24, 8, 8 p.
Publication: Research - peer-review › Journal article – Annual report year: 2016

Novel porous fiber based on dual-asymmetry for low-loss polarization maintaining THz wave guidance
Publication: Research - peer-review › Journal article – Annual report year: 2016

Extremely High-Birefringent Asymmetric Slotted-Core Photonic Crystal Fiber in THz Regime
Publication: Research - peer-review › Journal article – Annual report year: 2015

Extremely low-loss single-mode photonic crystal fiber in the terahertz regime
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Extremely Low Loss THz Guidance Using Kagome Lattice Porous Core Photonic Crystal Fiber
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015
Highly birefringent photonic crystal fiber with ultra-flattened negative dispersion over S + C + L + U bands
Publication: Research - peer-review › Journal article – Annual report year: 2015

Improved Low-loss Hollow Core Anti-Resonant Silica Mid-IR Fibers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Low Loss Double-clad Hollow Core Anti-Resonant Fibers in the Mid-IR
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Low-loss hollow-core silica fibers with adjacent nested anti-resonant tubes
Habib, S., Bang, O. & Bache, M. 2015 In : Optics Express. 23, 13, p. 17394-17406
Publication: Research - peer-review › Journal article – Annual report year: 2015

Low-loss rotated porous core hexagonal single-mode fiber in THz regime
Publication: Research - peer-review › Journal article – Annual report year: 2015

Low Loss Single-Mode Porous-Core Kagome Photonic Crystal Fiber for THz Wave Guidance
Publication: Research - peer-review › Journal article – Annual report year: 2015

Projects:

Ultrafast mid-IR nonlinear optics in gas-filled hollow-core photonic crystal fibers
Habib, S.
15/04/2014 → 14/04/2017
Project

Ultrafast mid-IR nonlinear optics in gas-filled hollow-core photonic crystal fibers
Habib, S., Bache, M., Bang, O., Lægsgaard, J., Biancalana, F. & Joly, N.
15/04/2014 → 14/06/2017
Project: PhD

Activities:

CREOL, The College of Optics and Photonics
Habib, S. (Visiting researcher)
1 May 2016 → 31 Aug 2016
Activity: Visiting an external institution › Visiting another research institution