Research outputs:

**Real-time high-resolution mid-infrared optical coherence tomography**
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

**Characterization of the NEP of Mid-Infrared Upconversion Detectors**
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

**Pulsed upconversion imaging of mid-infrared supercontinuum light using an electronically synchronized pump laser**
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

**Upconversion detector for range-resolved DIAL measurement of atmospheric CH4**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Mid-IR hyperspectral imaging for label-free histopathology and cytology**
Research output: Contribution to journal › Review – Annual report year: 2018 › Research › peer-review

**Electronically delay-tuned upconversion cross-correlator for characterization of mid-infrared pulses**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Enhancing the detectivity of an upconversion single-photon detector by spatial filtering of upconverted parametric fluorescence**
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

**Infrared upconversion spectrometer for the mid-ir range**
Research output: Patent › Patent – Annual report year: 2018 › Research

**Long wavelength identification of microcalcifications in breast cancer tissue using a quantum cascade laser and upconversion detection**
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review
Low repetition rate 343 nm passively Q-switched solid-state laser for time-resolved fluorescence spectroscopy
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Mid-Infrared (6 - 10 μm) upconversion in LiInS2 using 1064 nm CW pump
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

Mid-infrared coincidence measurements based on intracavity frequency conversion
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

Mid-infrared imaging using upconversion - Principles and applications
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

Mid-infrared upconversion based hyperspectral imaging
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Point-Spread Function Engineering in Upconversion Imaging
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

S/N ratio of an upconversion detector dominated by upconverted spontaneous parametric down-conversion noise
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

Thermal noise in mid-infrared broadband upconversion detectors
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Time-resolved infrared photoluminescence spectroscopy using parametric three-wave mixing with angle-tuned phase matching
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Upconversion detection of long-wave infrared radiation from a quantum cascade laser
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review
Upconversion raster scanning microscope for long-wavelength infrared imaging of breast cancer microcalcifications
Tseng, Y-P., Bouzy, P., Pedersen, C., Stone, N. & Tidemand-Lichtenberg, P., 2018, In : Biomedical Optics Express. 9, 10 , p. 4979-4987
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

340nm UV LED excitation in time-resolved fluorescence system for europium-based immunoassays detection
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Broadband upconversion imaging around 4 µm using an all-fiber supercontinuum source
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Concave Grating Enabled Compact Mid-IR Upconversion Spectrometer
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

GHz-bandwidth upconversion detector using a unidirectional ring cavity to reduce multilongitudinal mode pump effects
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

High-sensitivity detection of cardiac troponin I with UV LED excitation for use in point-of-care immunoassay
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Inherent Limitations in Mid-Wave and Long-Wave-IR Upconversion Detector
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Intracavity upconversion for IR absorption lidar: Comparison of linear and ring cavity designs
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2017 › Research › peer-review

Investigation of mid-IR picosecond image upconversion
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Mid-infrared coincidence measurements on twin photons at room temperature
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review
Nonlinear upconversion based infrared spectroscopy on ZSM-5 zeolite
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Novel mid-infrared imaging system based on single-mode quantum cascade laser illumination and upconversion
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2017 › Research › peer-review

Towards rapid high-resolution mid-IR imaging for molecular spectral histopathological diagnosis of oesophageal cancers
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2017 › Research › peer-review

Ultra-broadband mid-wave-IR upconversion detection
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Upconversion based MIR hyperspectral imaging
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2017 › Research › peer-review

Upconversion based spectral imaging in 6 to 8 μm spectral regime
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Upconversion detector for methane atmospheric sensor
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Upconversion imaging using short-wave infrared picosecond pulses
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

340 nm pulsed UV LED system for europium-based time-resolved fluorescence detection of immunoassays
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Investigation of noise sources in upconversion based infrared hyperspectral imaging
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review
Mid-infrared nonlinear upconversion imaging and sensing
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Mid-infrared upconversion spectroscopy
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Room temperature Up-conversion detection of a broadband Mid-IR source
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Room temperature Up-conversion detection of a broadband Mid-IR source
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Upconversion-based lidar measurements of atmospheric CO2
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Upconversion-based lidar measurements of atmospheric CO2
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Upconversion imaging using an all-fiber supercontinuum source
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Upconversion imaging using an all-fiber supercontinuum source
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Design of a solid state laser for low noise upconversion detection of near infrared light
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Design of a solid state laser for low noise upconversion detection of near infrared light
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Infrared hyperspectral upconversion imaging using spatial object translation
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Infrared hyperspectral upconversion imaging using spatial object translation
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Infrared hyperspectral upconversion imaging
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Infrared hyperspectral upconversion imaging
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Multi-channel up-conversion infrared spectrometer and method of detecting a spectral distribution of light

Tunable 1.9μm laser system for Mid-IR upconversion detection
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Tunable 1.9μm laser system for Mid-IR upconversion detection
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Upconversion applied for mid-IR hyperspectral image acquisition
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review

Upconversion applied for mid-IR hyperspectral image acquisition
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review
**Infrared up-conversion microscope**


**Infrared up-conversion telescope**


**Low-noise mid-IR upconversion detector for improved IR-degenerate four-wave mixing gas sensing**


Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

**Mid infrared upconversion spectroscopy using diffuse reflectance**


Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

**Mid-IR Imaging: Upconversion imager improves IR gas sensing**


Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

**Near diffraction limited mid-IR spectromicroscopy using frequency upconversion**


Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

**Non-collinear upconversion of incoherent light: designing infrared spectrometers and imaging systems**


Research output: Contribution to journal › Conference article – Annual report year: 2014 › Research › peer-review

**Non-collinear upconversion of infrared light**


Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

**Nonlinear Optics: Principles and Applications**


Research output: Book/Report › Book – Annual report year: 2015 › Research › peer-review

**Room-temperature mid-infrared single-photon imaging using upconversion**


Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

**Upconversion enhanced degenerate four-wave mixing in the mid-infrared for sensitive detection of acetylene in gas flows**


Research output: Contribution to journal › Conference article – Annual report year: 2014 › Research › peer-review
Continuous-wave near-photon counting spectral imaging detector in the mid-infrared by upconversion
Research output: Contribution to journal › Conference article – Annual report year: 2013 › Research › peer-review

Direct Seeded Single Frequency mid-IR OPA all Passive Light Source
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review

Highly Stable, All-fiber, High Power ZBLAN Supercontinuum Source Reaching 4.75 µm used for Nanosecond mid-IR Spectroscopy
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review

High resolution mid-infrared spectroscopy based on frequency upconversion
Research output: Contribution to journal › Conference article – Annual report year: 2013 › Research › peer-review

Multispectral mid-infrared imaging using frequency upconversion
Research output: Contribution to journal › Conference article – Annual report year: 2013 › Research › peer-review

The still unknown azobenzene - Wavelength dependent photoanisotropy in amorphous azobenzene polymers.
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Upconversion based continuous-wave mid-infrared detection
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review

Upconversion imager measures single mid-IR photons
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

500 nm Continuous Wave Tunable SingleFrequency MidIR Light Source for C–H Spectroscopy
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Broadband frequency conversion
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2012 › Research › peer-review

Broadband frequency conversion
Research output: Contribution to conference › Poster – Annual report year: 2012 › Research › peer-review
Frequency up-conversion based single photon, mid-IR spectral imaging with 20% quantum efficiency

Research output: Contribution to conference › Paper – Annual report year: 2012 › Research › peer-review

High-resolution mid-IR spectrometer based on frequency upconversion

Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Image upconversion - a low noise infrared sensor?

Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2012 › Research › peer-review

Image upconversion, a low noise infrared sensor?

Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2012 › Research › peer-review

Improved space bandwidth product in image upconversion

Research output: Contribution to journal › Conference article – Annual report year: 2012 › Research › peer-review

Optical stretching on chip with acoustophoretic prefocusing

Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review

Red-IR stimulated luminescence in K-feldspar: Single or multiple trap origin?

Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Room temperature mid-IR single photon spectral imaging

Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Theory for upconversion of incoherent images

Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Tunable mW Narrow Bandwidth Mid-Infrared Light Source

Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review

Advances in DUV spectroscopy

Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research › peer-review

A simple model for 2D image upconversion of incoherent light

Bringing the infrared to light
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research › peer-review

Effect of Laser and LED on Enzymatic Production of Ceramide
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Efficient near diffraction limited blue light source by sum-frequency mixing of a BAL and a solid-state laser
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Experimental investigation of relative timing jitter in passively synchronized Q-switched lasers
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

High resolution 2D image upconversion of incoherent light
Research output: Contribution to conference › Conference article – Annual report year: 2011 › Research › peer-review

NIR Capturing images with spectral information in the mid-infrared
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research › peer-review

Passive synchronized Q-switching between a quasi-three-level and a four-level laser
Research output: Contribution to journal › Conference article – Annual report year: 2011 › Research › peer-review

Spectral Imaging by Upconversion
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

All passive synchronized Q-switching of a quasi-three-level and a four-level Nd:YAG laser
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Autofluorescence of pigmented skin lesions using a pulsed UV laser with synchronized detection: clinical results
Research output: Contribution to journal › Conference article – Annual report year: 2010 › Research › peer-review

Efficient frequency up-conversion of Broad Area Laser diode
Efficient quasi-three-level Nd:YAG laser at 946 nm pumped by a tunable external cavity tapered diode laser
Research output: Contribution to conference › Poster – Annual report year: 2010 › Research › peer-review

High-resolution two-dimensional image upconversion of incoherent light
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Mid-IR image acquisition using a standard CCD camera
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

Optical Arrangement and Method
Research output: Patent › Patent – Annual report year: 2010 › Research

Single vs. multiple trap origin for infrared resonance in feldspar
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2010 › Research › peer-review

Unidirectional ring-laser operation using sum-frequency mixing
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

\(\chi^{(2)}\) Induced Non-Reciprocal Loss and/or Phase Shift for Unidirectional Operation of Ring Lasers
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

2D Nonlinear Image Up-conversion and Filtering Using Enhanced Sum Frequency Generation
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2009 › Research › peer-review

Enhanced 2D-image upconversion using solid-state lasers
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

External cavity tapered diode pumped laser to generate pulsed UV light for autofluorescence diagnostics
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research

Intracavity Frequency Mixing in a Semiconductor Disk Laser Generating >100mW in the Yellow-Orange
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research
Mechanical pull on a guest by a photoresponsive lipid bilayer
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research › peer-review

Modeling image conversion in sum-frequency generation
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research › peer-review

Nonlinear beam clean-up using resonantly enhanced sum-frequency mixing
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Singly-resonant sum frequency generation of visible light in a semiconductor disk laser
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Tapered diode laser pumped 946 nm Nd:YAG laser
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

Visible and ultraviolet light sources based nonlinear interaction of lasers
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research

300 mW of coherent light at 488 nm using a generic approach
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review

Comparison of a Ti:S Laser and a Tapered External Cavity Diode Laser for Sum Frequency Generation in a High-Finesse 1342 nm Nd:YVO4 Laser
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

Generation of higher order Gauss-Laguerre modes in single-pass 2nd harmonic generation
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Pulsed UV-light source for auto-fluorescence diagnostics
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

Pulsed UV-light source for auto-fluorescence diagnostics
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research
PUMPED LASER SYSTEM USING FEEDBACK TO PUMP MEANS

Theoretical comparison of SHG and SFG efficiencies for visible light generation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research

Theoretical comparison of SHG and SFG Efficiencies for visible light generation
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

Theoretical comparison of SHG and SFG efficiency and stability
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

Efficient visible light generation by mixing of a solid-state laser and a tapered diode laser
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Enhance non-linear frequency conversion using diode pumped VECSELs

First measurement of the nonlinear coefficient for Gd_{1-x}Lu_xCa_4O(BO_3)_3 and Gd_{1-x}Sc_xCa_4O(BO_3)_3 crystals
Andersen, M. T., Mortensen, J. L., Germershausen, S., Tidemand-Lichtenberg, P., Buchhave, P., Gheorghe, L., Lupei, V., Loiseau, P. & Aka, G., 2007, In : First measurement of the nonlinear coefficient for Gd1-xLu x Ca4O(BO3)3 and Gd 1-xScxCa4O(BO3)3 crystals. 15, 8, p. 4893-4901
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Nonlinear cavity dumping of a high finesse frequency mixing module
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

100 mW of blue light at 405 nm from intracavity doubling of CW Ti:Sapphire laser utilising BiBO-crystal
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Generation of pulsed light in the visible spectral region based on non-linear cavity dumping
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Intracavity frequency doubling of CW Ti:Sapphire laser utilising BiBO nonlinear crystal
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Investigation of passively synchronized dual-wavelength Q-switched lasers based on V:YAG saturable absorber
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review
Pulsed, all solid-state light source in the visible spectral region based on non-linear cavity dumping
Research output: Contribution to conference › Poster – Annual report year: 2006 › Research › peer-review

Quantum and Nonlinear Optics Ph.D.-Summer School - 2006
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Communication

Tunable intra-cavity SHG of CW Ti:Sapphire lasers around 785 nm and 810 nm in BiBO-crystals
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Up to 30 mW of broadly tunable CW green-to-orange light, based on sum-frequency mixing of Cr4+:forsterite and Nd:YVO4 lasers
Research output: Contribution to journal › Journal article – Annual report year: 2002 › Research › peer-review

Up to 30 mW of broadly tunable CW green-to-orange light, based on sum-frequency mixing of Cr4+:forsterite and Nd:YVO4 lasers
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Dual-world hardware and software optics educational system
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research › peer-review

Dual-world hardware and software optics educational system
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Efficient all solid-state continuous-wave yellow-orange light source
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Efficient all-solid-state yellow laser
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2005 › Research

Intracavity doubling of CW Ti:sapphire laser to 392.5 nm using BiBO-crystal
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Intracavity doubling of CW Ti:Sapphire laser to 392.5 nm using BiBO-crystal
Research output: Contribution to conference › Poster – Annual report year: 2005 › Research › peer-review
**Passively synchronized dual-wavelength Q-switched lasers**
Research output: Contribution to conference › Poster – Annual report year: 2004 › Research › peer-review

**Simultaneous measurement of patterns in the signal and idler near and far fields from a confocal optical parametrical oscillator with applications in quantum optics**
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

**Tunable CW green-to-orange light, based on sum frequency mixing of Cr4+:forsterite and Nd:YVO4 lasers**
Research output: Contribution to conference › Poster – Annual report year: 2005 › Research

**Efficient generation of continuous-wave yellow-orange light using sum-frequency in periodically poled KTP**
Research output: Contribution to conference › Poster – Annual report year: 2004 › Research › peer-review

**Measurement of two-photon excited fluorescens from Glycated Lysine compounds**
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

**Squeezing based on nondegenerate frequency doubling internal to a realistic laser**
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

**Synchronization of 1064 and 1342 nm pulses using passive saturable absorbers**
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

**Synchronized Q-switching of 1064 and 1342 nm laser cavities using a V:YAG saturable absorber**
Research output: Contribution to conference › Poster – Annual report year: 2004 › Research › peer-review

**Modelling a singly resonant, intracavity ring optical parametric oscillator**
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

**Off-axis beam combining**
Research output: Patent › Patent – Annual report year: 2003 › Research

**Variable stripe mirror**

**Nonlinear frequency conversion in coupled ring cavities**
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

**Control of ring lasers by means of coupled cavities**
Control of ring lasers by means of coupled cavities

Generalised theory describing non-linear interaction of focused Gaussian waves of arbitrary polarisation states
Tidemand-Lichtenberg, P. & Buchhave, P., 2000, In : Optics Communications. 180, p. 159-165

Diode-pumped single-frequency Nd:YVO4 laser with a set of coupled resonators

Projects:

Mid-Infrared Upconversion Imaging and Spectroscopy using Short Pulse Light Sources
A.S, A., Pedersen, C. & Tidemand-Lichtenberg, P.
Samfinansieret - Andet
01/06/2018 → 31/01/2021
Project: PhD

Generation of Optical Shrödinger Cat-States
Technical University of Denmark
01/01/2009 → 21/06/2012
Project: PhD

Tunbare lasers i det synlige og ultraviolette område
Mortensen, J. L., Tidemand-Lichtenberg, P., Buchhave, P., Lodahl, P., Arie, A. & Petersen, P. M.
Forskningsrådsfinansiering
01/06/2003 → 20/11/2006
Project: PhD

Lyskilder til ikke-invasive to-foton processer i øjet
Thorhauge, M., Tidemand-Lichtenberg, P., Buchhave, P., Rottwitt, K., Laurell, F., Sander, B. A. & Larsen, M.
DTU-lønnet stipendie
01/01/2003 → 31/05/2007
Project: PhD

Upconversion based hyperspectral imaging
Marie Curie (EU-stipendium)
01/12/2015 → 06/03/2019
Project: PhD

Long-wavelength Infrared (LWIR) Upconversion Spectroscopy and Imaging
Tseng, Y., Tidemand-Lichtenberg, P., Pedersen, C., Lindvold, L. R., Francoy, J. C. & Suchowski, H.
Marie Curie (EU-stipendium)
01/10/2015 → 15/12/2018
Project: PhD
UV light source for next generation immunoassay analyzer
Industrial PhD
01/06/2015 → 30/09/2018
Project: PhD

Super continuum laser for broadband spectroscopy using upconversion
Huot, L., Pedersen, C., Moselund, P. M., Tidemand-Lichtenberg, P., Julsgaard, B., Arie, A. & Genty, G.
Eksternt EU-finansieret
15/03/2015 → 23/01/2019
Project: PhD

Upconversion mid-infrared (UCIR) spectroscopy and spectromicroscopy of heterogeneous catalysts
Industrial PhD
15/09/2014 → 07/03/2018
Project: PhD

All-fiber Raman Probe
Brunetti, A. C., Rottwitt, K., Gernaey, K. V., Tidemand-Lichtenberg, P., Brambilla, G. & De Matos, C. J. S.
Forskningsrådsfinansiering
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Technical University of Denmark
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