Christian Pedersen - DTU Orbit (05/05/2019)
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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

Lad vand og data strømme
Research output: Book/Report › Report – Annual report year: 2019 › Commissioned › 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

SHG (532 nm)-induced spontaneous parametric downconversion noise in 1064-nm-pumped IR upconversion detectors
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

Diode laser systems based on nonlinear frequency conversion
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – 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

Investigation of optical signatures for discriminating salmon lice from other species of zooplankton
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review
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
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

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

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

Eye-safe diode laser Doppler lidar with a MEMS beam-scanner
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: 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 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

Development of semiconductor laser based Doppler lidars for wind-sensing applications
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

Direct Detection Doppler Lidar using a Scanning Fabry-Perot Interferometer and a Single-Photon Counting Module
Research output: Contribution to conference › Poster – Annual report year: 2015 › Research › peer-review

Effects of 1/f frequency noise in self-heterodyne linewidth measurement system with various delay lengths
Research output: Contribution to conference › Poster – 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 upconversion hyperspectral 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

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

Coaxial direct-detection lidar-system

Diode laser lidar wind velocity sensor using a liquid-crystal retarder for non-mechanical beam-steering
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review
Field test of an all-semiconductor laser-based coherent continuous-wave Doppler lidar for wind energy applications
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2014 › Research › peer-review

Impact of primary aberrations on coherent lidar performance
Research output: Contribution to journal › Conference article – Annual report year: 2014 › Research › peer-review

Influence of laser frequency noise on scanning Fabry-Perot interferometer based laser Doppler velocimetry
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › 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

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

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

Semiconductor Laser Lidar Wind Velocity Sensor for Turbine Control
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

Investigation of spherical aberration effects on coherent lidar performance
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Monostatic coaxial 1.5 µm laser Doppler velocimeter using a scanning Fabry-Perot interferometer
Research output: Contribution to journal › Journal 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

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 Fourier domain mode-locked laser for optical coherence tomography at 1060 nm
Research output: Contribution to journal › Conference 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

Comparative study of the performance of semiconductor laser based coherent Doppler lidars
Research output: Contribution to journal › Conference article – Annual report year: 2012 › Research › peer-review

Field performance of an all-semiconductor laser coherent Doppler lidar
Research output: Contribution to journal › Journal article – 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

High-speed polarization-sensitive OCT at 1060 nm using a Fourier domain mode-locked swept source
Research output: Contribution to journal › Conference 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

Investigation of the impact of water absorption on retinal OCT imaging in the 1060 nm range
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Multiple directional LIDAR system
Research output: Patent › Patent – Annual report year: 2012 › Research

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

Vecor velocimeter
Research output: Patent › Patent – Annual report year: 2012 › Research

A simple model for 2D image upconversion of incoherent light
Research output: Contribution to journal › Conference article – Annual report year: 2011 › Research › peer-review

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

Broadband Fourier domain mode-locked laser for optical coherence tomography at 1060 nm
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research

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 power swept source for Optical Coherence Tomography
Research output: Contribution to conference › Poster – Annual report year: 2011 › Research

High resolution 2D image upconversion of incoherent light
Research output: Contribution to journal › 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
Research output: Contribution to conference › Poster – Annual report year: 2010 › Research › peer-review

Efficient quasi-three-level Nd:YAG laser at 946 nm pumped by a tunable external cavity tapered diode laser
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

FDML swept source at 1060 nm using a tapered amplifier
Research output: Contribution to journal › Conference article – Annual report year: 2010 › Research › peer-review

Fourier domain mode-locked swept source at 1050 nm based on a tapered amplifier
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

High-power FDML laser for swept source-OCT at 1060 nm
Research output: Contribution to journal › Conference article – Annual report year: 2010 › Research › peer-review

High power swept source for optical coherence tomography
Research output: Contribution to conference › Poster – Annual report year: 2010 › Research

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

Photonics activities at DTU Fotonik
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Reduction of phase-induced intensity noise in a fiber-based coherent Doppler lidar using polarization control
Research output: Contribution to journal › Journal article – 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

COHERENT LIDAR SYSTEM BASED ON A SEMICONDUCTOR LASER AND AMPLIFIER

Doppler wind lidar using a MOPA semiconductor laser at stable single-frequency operation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research

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

Frequency-swept laser light source at 1050 nm with higher bandwidth due to multiple semiconductor optical amplifiers in series
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

High power swept source for Optical Coherence Tomography
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research

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

Nonlinear optics using tapered diode lasers: [invited]
Research output: Contribution to conference › Paper – Annual report year: 2009 › Research › peer-review

Novel concepts to improve Swept Sources for Optical Coherence Tomography
Research output: Contribution to conference › Poster – 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

The optical biosensor: the sensor knows
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2009 › Communication
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

All semiconductor laser Doppler anemometer at 1.55 μm
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

A new pulsed 404 nm laser source for biomedical applications
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research

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

Frequency-swept laser light source at 1050 nm with higher bandwidth due to multiple SOAs in series
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2008 › Research

Pulsed UV Laser for Fluorescence Diagnostics based on Non-Linear Frequency Conversion
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research

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

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

Nonlinear cavity dumping of a high finesse frequency mixing module
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review
Fasekonjugeret tapered diodelaser
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2006 › Research

Single frequency, high power, tapered diode laser using phase-conjugated feedback
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Tunable high-power narrow-linewidth semiconductor laser based on an external-cavity tapered amplifier
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

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

Variable stripe mirror

Triangular laser resonators with astigmatic compensation
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Frequency doubling in LiNbO3 using temperature dependent QPM
Research output: Contribution to journal › Journal article – Annual report year: 1999 › Research › peer-review

New prism ring laser design incorporating frustrated total internal reflection output coupling
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1997 › Research › peer-review

Signal-flow graphs in coupled laser resonator analysis
Research output: Contribution to journal › Journal article – Annual report year: 1997 › Research › peer-review

Single-frequency diode-pumped Nd:YAG prism laser with use of a composite laser crystal
Research output: Contribution to journal › Journal article – Annual report year: 1997 › Research › peer-review

Frequency tuning and stability of Nd:YVO4 in a dual coupled cavity
Research output: Contribution to journal › Journal article – Annual report year: 1996 › Research › peer-review

Investigation of frequency stability and design criteria of ring lasers
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1996 › Research › peer-review

Laser modes and threshold condition in N-mirror resonator.
Research output: Contribution to journal › Journal article – Annual report year: 1996 › Research › peer-review

Reduction of spatial holeburning in a diode pumped Nd:YAG laser by the use of a composite laser crystal
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1996 › Research › peer-review

Tuning and stability properties of a single frequency diode-pumped coupled-cavity Nd:YVO4 laser
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1996 › Research › peer-review

Diode-pumped single-frequency Nd:YVO4 laser with a set of coupled resonators
Research output: Contribution to journal › Journal article – Annual report year: 1995 › Research › peer-review
Projects:

**Mid-Infrared Upconversion Imaging and Spectroscopy using Short Pulse Light Sources**  
Project: PhD

**Optical Monitoring of Zooplankton**  
Project: PhD

**Undersøgelser af optiske parametriske oscillatorer (OPOsystemer) specielt mhb anvendelser som infrarøde lyskilder**  
Project: PhD

**Upconversion based hyperspectral imaging**  
Project: PhD

**Power scaling of frequency converted visible lasers**  
Project: PhD

**Upconversion DIAL for Remote Gas Sensing**  
Project: PhD

**Long-wavelength Infrared (LWIR) Upconversion Spectroscopy and Imaging**  
Project: PhD

**UV light source for next generation immunoassay analyzer**  
Project: PhD

**Super continuum laser for broadband spectroscopy using upconversion**  
Project: PhD

**Novel concepts for improving swept sources for Optical Coherence Tomography**  
Project: PhD

**Pulsed Blue and Ultraviolet Laser System for Fluorescence Diagnostics based on Nonlinear Frequency Conversion**  
Project: PhD

**Novel diode laser LIDAR systems**  
Project: PhD

**Composite Fibre and Solid-State Visible Light Source**  
Project: PhD

**New light Sources for Biomedical Applications**  
Project: PhD

**IR Sensing and Imaging**  
Project: PhD

**Cost-efficient lidar for pitch control**  
Project: Research
Low-cost semiconductor laser wind sensors
Project: Research

Bringing the infrared to light
Project: Research

Synlig lyskilde 1700167 : General approach to high power, coherent, visible and ultraviolet
Project: Research

Spectral Mid-IR Imaging
Project: Research

Activities:

Workshop on “Laser Sources for LIDAR Applications”
Activity: Talks and presentations › Conference presentations

Room temperature nonlinear imaging and detection with single photon sensitivity at mid-IR wavelengths
Activity: Talks and presentations › Conference presentations

Mid-IR Single Photon Imaging and Spectroscopy using Upconversion: SPECIALISTS’ MEETING SET-210
Activity: Talks and presentations › Conference presentations

Meeting on Optical Engineering and Science in Israel; 12
Activity: Talks and presentations › Conference presentations