Anders Kristensen - DTU Orbit (21/10/2018)

Anders Kristensen
Professor
Department of Micro- and Nanotechnology
Optofluidics

Postal address:
Ørsted Plads
344, 124
2800
Kgs. Lyngby
Denmark
Email: anders.kristensen@nanotech.dtu.dk
Phone: 45256331
Mobile: 25171852
Fax: 4588 7762
Web address: http://www.nanotech.dtu.dk
Web: http://www.nanotech.dtu.dk

Research outputs:

A lab-in-a-foil microfluidic reactor based on phaseguiding
Research output: Research - peer-review › Journal article – Annual report year: 2018

Concentrating and labeling genomic DNA in a nanofluidic array
Research output: Research - peer-review › Journal article – Annual report year: 2018

Digital resonant laser printing: Bridging nanophotonic science and consumer products
Research output: Research - peer-review › Journal article – Annual report year: 2018

Effects of water-absorption and thermal drift on a polymeric photonic crystal slab sensor
Research output: Research - peer-review › Journal article – Annual report year: 2018

Holographic Resonant Laser Printing of Metasurfaces Using Plasmonic Template
Research output: Research - peer-review › Journal article – Annual report year: 2018

Multifunctional waveguide interferometer sensor: Simultaneous detection of refraction and absorption with size-exclusion function
Research output: Research - peer-review › Journal article – Annual report year: 2018

Nanofluidic device for extraction of elastic bio-entities
Research output: Research › Patent – Annual report year: 2018

Optoelectric scaffold for photo-responsive biological components.
Research output: Research › Patent – Annual report year: 2018

Optofluidic Sensor for Inline Hemolysis Detection on Whole Blood
Research output: Research - peer-review › Journal article – Annual report year: 2018

Resonant laser printing of bi-material metasurfaces: from plasmonic to photonic optical response
Research output: Research - peer-review › Journal article – Annual report year: 2018

Sequencing of human genomes extracted from single cancer cells isolated in a valveless microfluidic device
Research output: Research - peer-review › Journal article – Annual report year: 2018
Cuvette and method for measuring refractive index in a spectrophotometer
Research output: Research › Patent – Annual report year: 2017

MICROFLUIDIC DEVICE POSSESSING STRUCTURES ENABLING DIFFERENTIAL ANALYSIS OF A SINGLE CELL’S
CONSTITUENTS
Research output: Research › Patent – Annual report year: 2017

Complete sequence-based pathway analysis by differential on-chip DNA and RNA extraction from a single cell
Research output: Research - peer-review › Journal article – Annual report year: 2017

Digital resonant laser printing: manipulating optical meta-elements on demand
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Electrospun Polymer Fiber Lasers for Applications in Vapor Sensing
Research output: Research - peer-review › Journal article – Annual report year: 2017

Enrichment of megabase-sized DNA molecules for single-molecule optical mapping and next-generation sequencing
Research output: Research - peer-review › Journal article – Annual report year: 2017

Label-free monitoring of diffusion in microfluidics
Research output: Research - peer-review › Journal article – Annual report year: 2017

Nanoscale Plasmonic V-Groove Waveguides for the Interrogation of Single Fluorescent Bacterial Cells
Research output: Research - peer-review › Journal article – Annual report year: 2017

Optical and hydrodynamic stretching of single cells from blood
Research output: Research - peer-review › Conference article – Annual report year: 2017

Optothermally actuated capillary burst valve
Research output: Research - peer-review › Journal article – Annual report year: 2017

Photothermal Transport of DNA in Entropy-Landscape Plasmonic Waveguides
Research output: Research - peer-review › Journal article – Annual report year: 2017

Resonant laser printing of structural colors on high-index dielectric metasurfaces
Research output: Research - peer-review › Journal article – Annual report year: 2017

Photothermal modification of plasmonic structures
Research output: Research › Patent – Annual report year: 2016

Coupling between a plasmonic V-groove waveguide and single fluorescent bacterial cells
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Excitation of surface plasmon polariton modes with multiple nitrogen vacancy centers in single nanodiamonds
Research output: Research - peer-review › Journal article – Annual report year: 2016

How to determine local stretching and tension in a flow-stretched DNA molecule
Research output: Research - peer-review › Journal article – Annual report year: 2016
New technologies for DNA analysis: a review of the READNA Project
Research output: Research - peer-review › Journal article – Annual report year: 2016

Optical sensors from electrohydrodynamic jetted polymer fiber resonators
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Optical two-beam trap in a polymer microfluidic chip
Research output: Research - peer-review › Article in proceedings – Annual report year: 2016

Plasmonic Colors: Toward Mass Production of Metasurfaces
Research output: Research - peer-review › Journal article – Annual report year: 2016

Plasmonic colour generation
Research output: Research - peer-review › Journal article – Annual report year: 2016

Plasmonic colour laser printing
Research output: Research - peer-review › Journal article – Annual report year: 2016

Plasmonic laser printing for functional metasurfaces
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Plasmonic laser printing for ink-free color decoration
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Propagation of Channel Plasmons at the Visible Regime in Aluminum V-Groove Waveguides
Research output: Research - peer-review › Journal article – Annual report year: 2016

Pyrolytic carbon electrode for dopamine detection from cells
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Transition state theory demonstrated at the micron scale with out-of-equilibrium transport in a confined environment
Research output: Research - peer-review › Journal article – Annual report year: 2016

Tunable on chip optofluidic laser
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

A surface refractive index scanning system and method.
Research output: Research › Patent – Annual report year: 2016

Method of and system for identification or estimation of a refractive index of a liquid
Research output: Research › Patent – Annual report year: 2016

All-polymer photonic crystal slab sensor
Research output: Research - peer-review › Journal article – Annual report year: 2015

Automation of a single-DNA molecule stretching device
Research output: Research - peer-review › Journal article – Annual report year: 2015

Bio-inspired aesthetic solar cells
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015
Black metal thin films by deposition on dielectric antireflective moth-eye nanostructures
Research output: Research - peer-review › Journal article – Annual report year: 2015

Color metasurfaces in industrial perspective

Design and use of guided mode resonance filters for refractive index sensing
Research output: Research › Ph.D. thesis – Annual report year: 2015

Electrospun dye-doped fiber networks: lasing emission from randomly distributed cavities
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Fiber-Based, Injection-Molded Optofluidic Systems: Improvements in Assembly and Applications
Research output: Research - peer-review › Journal article – Annual report year: 2015

Gap and channeled plasmons in tapered grooves: a review
Research output: Research - peer-review › Journal article – Annual report year: 2015

High frame rate multi-resonance imaging refractometry with distributed feedback dye laser sensor
Research output: Research - peer-review › Journal article – Annual report year: 2015

Ink-free color decoration
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Microfluidics for single cell analysis
Research output: Research › Ph.D. thesis – Annual report year: 2015

Nanoimprinted distributed feedback dye laser sensors for high frame rate refractometric imaging of dissolution and fluid flow
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Optical manipulation with two beam traps in microfluidic polymer systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2016

Optical mapping of single-molecule human DNA in disposable, mass-produced all-polymer
Research output: Research - peer-review › Journal article – Annual report year: 2015

Polarization-dependent aluminum metasurface operating at 450 nm
Research output: Research - peer-review › Journal article – Annual report year: 2015

Refractive index dispersion sensing using an array of photonic crystal resonant reflectors
Research output: Research - peer-review › Journal article – Annual report year: 2015

Refractometric monitoring of dissolution and fluid flow with distributed feedback dye laser sensor
Research output: Research - peer-review › Journal article – Annual report year: 2015

Separation of cancer cells from white blood cells by pinched flow fractionation
Research output: Research - peer-review › Journal article – Annual report year: 2015

Smart plastic functionalization by nanoimprint and injection molding
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015
Tunable on chip optofluidic laser
Research output: Research - peer-review › Journal article – Annual report year: 2015

Absolute analytical prediction of photonic crystal guided mode resonance wavelengths
Research output: Research - peer-review › Journal article – Annual report year: 2014

Accurate wavelength prediction of photonic crystal resonant reflection and applications in refractive index measurement
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

A microfluidic device with a diffusion barrier
Research output: Research › Patent – Annual report year: 2015

A microfluidic device with pillars
Research output: Research › Patent – Annual report year: 2015

Angle-independent structural colors of silicon
Research output: Research - peer-review › Journal article – Annual report year: 2014

An optical device capable of providing a structural color, and a corresponding method of manufacturing such a device.
Research output: Research › Patent – Annual report year: 2015

Efficient Excitation of Channel Plasmons in Tailored, UV-Lithography-Defined V-Grooves
Research output: Research - peer-review › Journal article – Annual report year: 2014

High Excitation Efficiency of Channel Plasmon Polaritons in Tailored, UV-Lithography-Defined V-Grooves
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Injection molded microfluidic device for enrichment of somatic cells in cow milk
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Injection molded pinched flow fractionation device for enrichment of somatic cells in cow milk
Research output: Research - peer-review › Journal article – Annual report year: 2014

Injection moulding antireflective nanostructures
Research output: Research - peer-review › Journal article – Annual report year: 2014

Monolithic integration of DUV-induced waveguides into plastic microfluidic chip for optical manipulation
Research output: Research - peer-review › Journal article – Annual report year: 2014

Nanofluidics to Enhance Single Molecule DNA Imaging: Detecting Genomic Structural Variation in Humans
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2014

Nanoimprinted distributed feedback dye laser sensor for real-time imaging of small molecule diffusion
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Nanoimprinted DWDM laser arrays on indium phosphide substrates
Research output: Research - peer-review › Journal article – Annual report year: 2014

Nanoscale surface topographies for structural colors
Research output: Research › Ph.D. thesis – Annual report year: 2014
Nanostructured polymer- and metal surfaces: Antireflective and colour functionality
Research output: Research › Ph.D. thesis – Annual report year: 2014

Nanostructuring steel for injection molding tools
Research output: Research › peer-review › Journal article – Annual report year: 2014

Optimized Distributed Feedback Dye Laser Sensor for Real-Time Monitoring of Small Molecule Diffusion
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2014

Plasmonic Metasurfaces for Coloration of Plastic Consumer Products
Research output: Research › peer-review › Journal article – Annual report year: 2014

Plasmonic Structural Colors for Plastic Consumer Products
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2014

Polymer laser bio-sensors
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2015

Random-Cavity Lasing from Electrospun Polymer Fiber Networks
Research output: Research › peer-review › Journal article – Annual report year: 2014

Single-spot e-beam lithography for defining large arrays of nano-holes
Research output: Research › peer-review › Journal article – Annual report year: 2014

Thermophoretic forces on DNA measured with a single-molecule spring balance
Research output: Research › peer-review › Journal article – Annual report year: 2015

A nanofluidic device for mapping single DNA molecules to the human genome
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2014

Antireflective nanostructures replicated from black silicon
Research output: Research › peer-review › Poster – Annual report year: 2014

Controlled angular redirection of light via nanoimprinted disordered gratings
Research output: Research › peer-review › Journal article – Annual report year: 2013

DWDM laser arrays fabricated using thermal nanoimprint lithography on Indium Phosphide substrates
Research output: Research › peer-review › Poster – Annual report year: 2013

Electrically modulated transparent liquid crystal-optical grating projection
Research output: Research › peer-review › Journal article – Annual report year: 2013

Enhancing the chroma of pigmented polymers using antireflective surface structures
Research output: Research › peer-review › Journal article – Annual report year: 2013

Fabrication of passive Lab-in-a-Foil devices for phaseguiding and stoichiometric reactions
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2014
Fast-writing E-beam for defining large arrays of nano-holes
Research output: Research - peer-review › Book chapter – Annual report year: 2014

Fast-writing E-beam for large arrays of nano-holes
Research output: Research - peer-review › Poster – Annual report year: 2013

Fully Stretch Single DNA Molecules in a Nanofluidic Chip Show Large-Scale Structural Variation
Research output: Research - peer-review › Comment/debate – Annual report year: 2013

Imprinted and injection-molded nano-structured optical surfaces
Research output: Research - peer-review › Journal article – Annual report year: 2013

Injection moulded pinched flow fractionation device for cell separation
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Injection moulded pinched flow fractionation device for cell separation
Research output: Research - peer-review › Poster – Annual report year: 2014

Injection moulding antireflective nanostructures
Research output: Research - peer-review › Poster – Annual report year: 2013

Injection moulding antireflective nanostructures
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Integrated view of genome structure and sequence of a single DNA molecule in a nanofluidic device
Research output: Research - peer-review › Journal article – Annual report year: 2013

Multilayer distributed feedback dye lasers: Enhanced emission wavelength and sensing
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Multilayer Slab Waveguide Distributed Feedback Dye Laser Sensors
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Nanoimprinted distributed feedback lasers comprising TiO$_2$ thin films: Design guidelines for high performance sensing
Research output: Research - peer-review › Journal article – Annual report year: 2013

Nanometrology using localized surface plasmon resonance spectroscopy
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

Passive Lab-in-a-Foil Devices for Phaseguiding and Multiple Displacement Amplification of DNA
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Photonic crystal-adaptive optical devices
Research output: Research › Ph.D. thesis – Annual report year: 2013

Polymer optofluidic chip with DUV-induced waveguides for optical manipulation
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Single-mode biological distributed feedback laser
Research output: Research - peer-review › Journal article – Annual report year: 2013
Single-mode biological distributed feedback lasers based on vitamin B2 doped gelatin
Research output: Research › peer-review › Paper – Annual report year: 2013

Tailoring channeled plasmon polaritons in metallic V-grooves
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2013

Teaching and Learning Nanoimprint Lithography at DTU
Research output: Research › peer-review › Conference abstract for conference – Annual report year: 2013

Visualizing structural variations of single DNA molecules in a nanofluidic device
Research output: Research › Conference abstract for conference – Annual report year: 2014

Addressing the mechanical deformation of flexible stamps for nanoimprint lithography on double-curved surfaces
Research output: Research › Conference abstract for conference – Annual report year: 2012

Addressing the mechanical deformation of flexible stamps for nanoimprint lithography on double-curved surfaces
Research output: Research › Poster – Annual report year: 2012

All polymer, injection molded nanoslits, fabricated through two-level UV-LIGA processes
Research output: Research › peer-review › Article in proceedings – Annual report year: 2012

All polymer, injection molded nanoslits, fabricated through two-level UV-LIGA processes
Research output: Research › Sound/Visual production (digital) – Annual report year: 2012

Bragg grating filters in plasmonic V-groove waveguides
Research output: Research › peer-review › Conference abstract in proceedings – Annual report year: 2012

Color effects from scattering on random surface structures in dielectrics.
Research output: Research › peer-review › Journal article – Annual report year: 2012

Diffusion driven optofluidic dye lasers encapsulated into polymer chips
Research output: Research › peer-review › Journal article – Annual report year: 2012

Direct laser writing for nanoporous liquid core laser sensors
Research output: Research › peer-review › Journal article – Annual report year: 2012

DNA Catenation Maintains Structure of Human Metaphase Chromosomes
Research output: Research › peer-review › Journal article – Annual report year: 2012

Emission wavelength of multilayer distributed feedback dye lasers
Research output: Research › peer-review › Journal article – Annual report year: 2012

Fabrication of Low Aspect Ratio, Injection Molded Sturctures for Use in dsDNA Elongation
Research output: Research › peer-review › Poster – Annual report year: 2012

Integrated lasers for polymer Lab-on-a-Chip systems
Research output: Research › peer-review › Article in proceedings – Annual report year: 2012

Microfluidic device and method for processing of macromolecules
Research output: Research › Patent – Annual report year: 2012
Minimizing scattering from antireflective surfaces replicated from low-aspect-ratio black silicon
Research output: Research - peer-review › Journal article – Annual report year: 2012

Nanofluidic devices towards single DNA molecule sequence mapping
Research output: Research - peer-review › Journal article – Annual report year: 2012

On-chip integrated lasers for biophotonic applications
Research output: Research - peer-review › Paper – Annual report year: 2012

Plasmonic V-groove waveguides with Bragg grating filters via nanoimprint lithography
Research output: Research - peer-review › Journal article – Annual report year: 2012

Sub-wavelength surface gratings for light redirection in transparent substrates
Research output: Research - peer-review › Journal article – Annual report year: 2012

Wafer scale imprint uniformity evaluated by LSPR spectroscopy: a high volume characterization method for nanometer scale structures: Paper
Research output: Research - peer-review › Journal article – Annual report year: 2012

Sol-gel materials for optofluidics - process and applications
Research output: Research › Ph.D. thesis – Annual report year: 2012

Optofluidic Applications of Diblock Copolymer Derived Nanoporous Polymers
Research output: Research › Ph.D. thesis – Annual report year: 2011

Metmaterials for sensing applications
Research output: Research › Ph.D. thesis – Annual report year: 2011

A device for extraction, manipulation and stretching of DNA from single human chromosomes
Research output: Research - peer-review › Journal article – Annual report year: 2011

All-silica nanofluidic devices for DNA-analysis fabricated by imprint of sol-gel silica with silicon stamp.
Research output: Research - peer-review › Journal article – Annual report year: 2011

A nanoporous optical sensor element
Research output: Research › Patent – Annual report year: 2011

Controlled deposition of sol–gel sensor material using hemi-wicking
Research output: Research - peer-review › Journal article – Annual report year: 2011

Deposition of sol-gel sensor spots by nanoimprint lithography and hemi-wicking
Research output: Research - peer-review › Conference article – Annual report year: 2011

DNA analysis by single molecule stretching in nanofluidic biochips
Research output: Research - peer-review › Journal article – Annual report year: 2011

Dynamic in situ chromosome immobilisation and DNA extraction using localized poly(N-isopropylacrylamide) phase transition
Research output: Research - peer-review › Journal article – Annual report year: 2011
Enhanced transduction of photonic crystal dye lasers for gas sensing via swelling polymer film
Research output: Research - peer-review › Journal article – Annual report year: 2011

Extended verification of scaling behavior in split-ring resonators
Research output: Research - peer-review › Journal article – Annual report year: 2011

Fabrication of nanostructures on double-curved PMMA surfaces by thermal imprint with PDMS stamp
Research output: Research - peer-review › Poster – Annual report year: 2011

Gratings in plasmonic V-groove waveguides
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Injection molded nano-fluidic chips: Fabrication method and functional tests using single-molecule DNA experiments
Research output: Research - peer-review › Journal article – Annual report year: 2011

Injection molding tools with micro/nano-meter pattern
Research output: Research › Patent – Annual report year: 2012

Injection molding tools with micro/nano-meter pattern
Research output: Research › Patent – Annual report year: 2011

Integrated lasers for biophotonic Lab-on-a-Chip systems in polymer
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Large area color effects in polymer replica of black silicon
Research output: Research - peer-review › Poster – Annual report year: 2011

Large area color effects in polymer replica of black silicon
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Lasing in dye-doped high-Q conical polymeric microcavities
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Liquid Core Waveguides by UV Modification of Nanoporous Polymer
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2011

Metal-dielectric superlenses for ultraviolet and visible light
Research output: Research › Ph.D. thesis – Annual report year: 2011

Method for depositing sensor material on a substrate
Research output: Research › Patent – Annual report year: 2011

Nanoporous Liquid Core Waveguides with Filtering Effect
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Photolithographic fabrication of solid–liquid core waveguides by thiol-ene chemistry
Research output: Research - peer-review › Journal article – Annual report year: 2011

Pressure-Driven DNA in Nanogroove Arrays: Complex Dynamics Leads to Length- and Topology-Dependent Separation
Research output: Research - peer-review › Journal article – Annual report year: 2011
Roll-to-roll fabricated lab-on-a-chip devices
Research output: Research - peer-review › Journal article – Annual report year: 2011

Selective gas sensing for photonic crystal lasers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Solar energy harvesting system
Research output: Research › Patent – Annual report year: 2011

UV Defined Nanoporous Liquid Core Waveguides
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Pinched Flow Fractionation – Teknologi and Applikation
Research output: Research › Ph.D. thesis – Annual report year: 2010

MEMS-Teknologi i Nanoimprint Litografi
Research output: Research › Ph.D. thesis – Annual report year: 2010

Nanofluidics for ssDNA analysis
Research output: Research › Ph.D. thesis – Annual report year: 2010

All-polymer organic semiconductor laser chips: Parallel fabrication and encapsulation
Research output: Research - peer-review › Journal article – Annual report year: 2010

Capacitance tuning of nanoscale split-ring resonators
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Di-block co-polymer derived nanoporous polymer liquid core waveguides
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Electromagnetically induced transparency in metamaterials at near-infrared frequency
Research output: Research - peer-review › Journal article – Annual report year: 2010

Enhanced transduction of polymer photonic crystal band-edge lasers via additional layer deposition
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Fluorescence enhancement of single DNA molecules confined in Si/SiO2 nanochannels
Research output: Research - peer-review › Journal article – Annual report year: 2010

Geometrical tuning of nanoscale split-ring resonators
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Improved emission properties of polymer photonic crystal lasers by introducing a phase-shift
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Influence of index contrast in two dimensional photonic crystal lasers
Research output: Research - peer-review › Journal article – Annual report year: 2010

Light-Induced Local Heating for Thermophoretic Manipulation of DNA in Polymer Micro- and Nanochannels
Research output: Research - peer-review › Journal article – Annual report year: 2010
Liquid crystal tunable photonic crystal dye laser
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Low-threshold conical microcavity dye lasers
Research output: Research - peer-review › Journal article – Annual report year: 2010

Metal-dielectric composites with tunable optical properties
Research output: Research - peer-review › Conference article – Annual report year: 2010

Metamaterial localized resonance sensors: prospects and limitations
Research output: Research - peer-review › Journal article – Annual report year: 2010

Modeling of DNA in Nanochannels using linear elasticity theory
Research output: Research - peer-review › Poster – Annual report year: 2010

Nanoimprinted polymer chips for light induced local heating of liquids in micro- and nanochannels
Research output: Research - peer-review › Conference article – Annual report year: 2010

Nanoimprinted polymer photonic crystal dye lasers
Research output: Research - peer-review › Conference article – Annual report year: 2010

Nanoporous polymer liquid core waveguides
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Nearly zero transmission through periodically modulated ultrathin metal films
Research output: Research - peer-review › Journal article – Annual report year: 2010

Optofluidic applications using 1,2-PolyButadine nanoporous diblock copolymer.
Research output: Research - peer-review › Poster – Annual report year: 2010

Optofluidic dye laser in a foil
Research output: Research - peer-review › Journal article – Annual report year: 2010

Optofluidic microscope with 3D spatial resolution
Research output: Research - peer-review › Journal article – Annual report year: 2010

Single mode dye-doped polymer photonic crystal lasers
Research output: Research - peer-review › Journal article – Annual report year: 2010

Single-molecule denaturation mapping of DNA in nanofluidic channels
Research output: Research - peer-review › Journal article – Annual report year: 2010

The effect of Ti and ITO adhesion layers on gold split-ring resonators
Research output: Research - peer-review › Journal article – Annual report year: 2010

Thermoplastic microcantilevers fabricated by nanoimprint lithography
Research output: Research - peer-review › Journal article – Annual report year: 2010

Three-dimensional positioning with optofluidic microscope
Research output: Research › Conference article – Annual report year: 2010
Toward superlensing with metal-dielectric composites and multilayers
Research output: Research - peer-review » Journal article – Annual report year: 2010

UV patterned nanoporous solid-liquid core waveguides
Research output: Research - peer-review » Journal article – Annual report year: 2010

Wafer scale coating of polymer cantilever fabricated by nanoimprint lithography
Research output: Research - peer-review » Article in proceedings – Annual report year: 2010

Nanofluidics for Single Molecule Biophysics
Research output: Research » Ph.D. thesis – Annual report year: 2009

Nanostructured Polymer Dye Lasers
Research output: Research » Ph.D. thesis – Annual report year: 2009

An experimental investigation of Fang's Ag superlens suitable for integration
Research output: Research - peer-review » Conference article – Annual report year: 2009

Capacitance tuning of nanoscale split-ring resonators
Research output: Research - peer-review » Journal article – Annual report year: 2009

Competition between the Thermal Gradient and the Bimorph Effect in Locally Heated MEMS Actuators
Research output: Research - peer-review » Journal article – Annual report year: 2009

Confinement Spectroscopy: Probing Single DNA Molecules with Tapered Nanochannels
Research output: Research - peer-review » Journal article – Annual report year: 2009

Directed self-organization of single DNA molecules in a nanoslit via embedded nanopit arrays
Research output: Research - peer-review » Journal article – Annual report year: 2009

Droplet based cavities and lasers
Research output: Research - peer-review » Book chapter – Annual report year: 2009

Enhancement of polymer dye lasers by multifunctional photonic crystal lattice
Research output: Research - peer-review » Article in proceedings – Annual report year: 2009

Excitation of fluorescent nanoparticles by channel plasmon polaritons propagating in V-grooves
Research output: Research - peer-review » Journal article – Annual report year: 2009

Fabricating plasmonic components for nano-and meta-photonics: [invited]
Research output: Research - peer-review » Article in proceedings – Annual report year: 2009

Fabricating plasmonic components for nano-and meta-photonics
Research output: Research - peer-review » Article in proceedings – Annual report year: 2009

Fabricating plasmonic components for nanophotonics: [invited]
Research output: Research - peer-review » Article in proceedings – Annual report year: 2009

Fabricating plasmonic components for nanophotonics and lab-on-a-chip applications: [invited]
Research output: Research - peer-review » Article in proceedings – Annual report year: 2009
Local Conformation of Confined DNA Studied Using Emission Polarization Anisotropy
Research output: Research - peer-review › Journal article – Annual report year: 2009

Making plasmonic structures for nano- and metaphotonics: fabrication methods and challenges: [invited]
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

Optofluidic dye lasers
Research output: Research - peer-review › Book chapter – Annual report year: 2009

Polymer photonic crystal dye lasers as label free evanescent cell sensors
Research output: Research - peer-review › Conference article – Annual report year: 2009

Polymer photonic crystal dye lasers as optofluidic cell sensors
Research output: Research - peer-review › Journal article – Annual report year: 2009

Polymer photonic crystal dye lasers as optofluidic cell sensors
Research output: Research - peer-review › Journal article – Annual report year: 2009

Thin film Ag superlens towards lab-on-a-chip integration
Research output: Research - peer-review › Journal article – Annual report year: 2009

UV written Liquid Core Waveguides in 1,2-Polybutadine nanoporous polymers
Research output: Research - peer-review › Poster – Annual report year: 2009

Windowless microfluidic platform based on capillary burst valves for high intensity x-ray measurements
Research output: Research - peer-review › Journal article – Annual report year: 2009

Optofluidic dye Lasers
Research output: Research › Ph.D. thesis – Annual report year: 2008

A compact system for large-area thermal nanoimprint lithography using smart stamps
Research output: Research - peer-review › Journal article – Annual report year: 2008

A Novel Approach to DNA Force Spectroscopy
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Channel plasmon polariton propagation in nanoimprinted V-groove waveguides
Research output: Research - peer-review › Journal article – Annual report year: 2008

Channel plasmon polariton waveguides fabricated by combined UV and nanoimprint lithography
Research output: Research - peer-review › Journal article – Annual report year: 2008

Continuous roll-to-roll method to produce Fluidies channels on plastic web
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Determination of Stress Build-up during Nanoimprint process in Triangular Polymer Structures
Research output: Research - peer-review › Journal article – Annual report year: 2008

Electroviscous effects in capillary filling of nanochannels
Research output: Research - peer-review › Journal article – Annual report year: 2008
Excitation of Fluorescent Nanoparticles by Plasmons Confined and propagating in V-grooves
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Fabrication of Cantilevers by NIL
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Fabrication of channel and wedge plasmon polariton devices by combined UV and nanoimprint lithography
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Fabrication of Nanophotonic Circuit Components by Thermal Nano Imprint Lithography
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Fabrication of photonic components by nanoimprint technology within ePIXnet
Research output: Research - peer-review › Journal article – Annual report year: 2008

Fabrication of Plasmonic Waveguides by Nanoimprint and UV Lithography
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Fast thermal nanoimprint lithography by a stamp with integrated heater
Research output: Research - peer-review › Conference article – Annual report year: 2008

International Conference on Micro- and Nano-Engineering (MNE) held in Copenhagen, Denmark September 23-26, 2007 - Preface
Research output: Research - peer-review › Journal article – Annual report year: 2008

Optofluidic Evanescent Sensing by Polymer Photonic Crystal Band Edge Lasers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Photonic integration in k-space: Enhancing the performance of photonic crystal dye lasers
Research output: Research - peer-review › Journal article – Annual report year: 2008

Pinched flow fractionation devices for detection of single nucleotide polymorphisms
Research output: Research - peer-review › Journal article – Annual report year: 2008

Polarization Anisotropy of DNA in Nanochannels
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Polymer Photonic Crystal Band Edge Lasers for Evanescent Wave Sensing
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Quantitative Strategies to Handle Stamp Bending in NIL
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Quantitative Strategies to Handle Stamp Bending in NIL
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Quantitative Strategies to Handle Stamp Bending in NIL
Research output: Research - peer-review › Poster – Annual report year: 2008

Roll-to-Roll Thermal Nanoimprinted Microfluidic Separation Devices
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008
Roll-to-Roll Thermal nanoimprinted Microfluidic separation devices based on Pinched flow Fractionation
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Separation enhancement in pinched flow fractionation
Research output: Research - peer-review › Journal article – Annual report year: 2008

Short-Cycle Thermal Nanoimprint using Smart Stamps
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Short-Cycle Thermal Nanoimprint using Smart Stamps
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Stretching DNA in polymer nanochannels fabricated by thermal imprint in PMMA
Research output: Research - peer-review › Journal article – Annual report year: 2008

Benchmarking of 50 nm features in thermal nanoimprint
Research output: Research - peer-review › Journal article – Annual report year: 2007

Bleaching and diffusion dynamics in optofluidic dye lasers
Research output: Research - peer-review › Journal article – Annual report year: 2007

Capillary driven tunable optofluidic DFB dye lasers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

Combined electron beam and UV lithography in SU-8
Research output: Research - peer-review › Journal article – Annual report year: 2007

Combined nano-imprint and photolithography (CNP) of integrated polymer optics
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

Combined nanoimprint and photolithography of integrated polymer optics
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2007

Combined nanoimprint and photolithography of integrated polymer optics
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2007

Determination of stress build-up during NIL process in triangular polymer structures
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2007

Diffusion dynamics in micro-fluidic dye lasers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

Diffusion dynamics in microfluidic dye lasers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

Diffusive and convective dye replenishment in optofluidic light sources
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007
Double thermal oxidation scheme for the fabrication of SiO2 nanochannels
Research output: Research - peer-review › Journal article – Annual report year: 2007

Experimental investigation of bubble formation during capillary filling of SiO2 nanoslits
Research output: Research - peer-review › Journal article – Annual report year: 2007

Fabrication of plasmonic waveguides by nanoimprint lithography
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2007

Fabrication of plasmonic waveguides for device applications
Research output: Research › Conference article – Annual report year: 2007

Fast thermal nanoimprint lithography by a stamp with integrated heater
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2007

Imprinted plasmonic waveguides
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2007

Imprinted silicon-based nanophotonics
Research output: Research - peer-review › Journal article – Annual report year: 2007

Integrated Active and Passive Polymer Optical Components with nm to mm Features
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

Integration of active and passive polymer optics
Research output: Research - peer-review › Journal article – Annual report year: 2007

Metal strips and wires as plasmonic waveguides for integrated-optics components
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

Microfabricated chips and novel methods for characterisation of nanostructures integrated in microsystems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

Nanoconfinement-enhanced conformational response of single DNA molecules to changes in ionic environment
Research output: Research - peer-review › Journal article – Annual report year: 2007

Nanoimprinted reflecting gratings for long-range surface plasmon polaritons
Research output: Research - peer-review › Journal article – Annual report year: 2007

Nanoimprint Lithography
Research output: Research - peer-review › Book chapter – Annual report year: 2007

Optofluidic tuning of photonic crystal band edge lasers
Research output: Research - peer-review › Journal article – Annual report year: 2007

Plasmon confinement in V-groove waveguides fabricated by nanoimprint lithography
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

Plasmonic components fabrication by lithographic patterning and nanoimprint
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007
Plasmonic Waveguides: Building nanophotonics with metals
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2007

Strips, wires and grooves as plasmonic waveguides for device applications
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2007

The physics of DNA in nanochannels
Research output: Research › Conference abstract in proceedings – Annual report year: 2007

The physics of DNA in nanochannels
Research output: Research › Conference abstract for conference – Annual report year: 2007

Tunability of optofluidic distributed feedback dye lasers
Research output: Research › Conference abstract in proceedings – Annual report year: 2007

Tunable Optofluidic Third Order DFB Dye Laser
Research output: Research › Conference abstract in proceedings – Annual report year: 2007

V-groove plasmonic waveguides fabricated by nanoimprint lithography
Research output: Research › Conference abstract for conference – Annual report year: 2007

V-groove plasmonic waveguides fabricated by nanoimprint lithography
Research output: Research › Article in proceedings – Annual report year: 2007

V-groove waveguides fabricated by nanoimprint lithography
Research output: Research › Conference abstract for conference – Annual report year: 2007

Polymer dye lasers
Research output: Research › Ph.D. thesis – Annual report year: 2006

Capillary filling speed in silicon dioxide nano-channels
Research output: Research › Article in proceedings – Annual report year: 2006

Combined electron beam lithography and UV lithography in SU-8
Research output: Research › Article in proceedings – Annual report year: 2006

Comparison of High Resolution Negative Electron Beam Resists
Research output: Research › Journal article – Annual report year: 2006

Fabrication of Long-Range Surface Plasmon Polariton Devices by Nanoimprint Lithography
Research output: Research › Article in proceedings – Annual report year: 2006

Grey scale electron beam lithography in functionalized SU-8 for active optical devices
Research output: Research › Article in proceedings – Annual report year: 2006

High pattern density nanoimprint lithography stamps fabricated by means of negative electron beam lithography resist, TEBN-1, and dry etching in silicon
Research output: Research › Article in proceedings – Annual report year: 2006
High resolution 100 kV electron beam lithography in SU-8
Research output: Research - peer-review › Journal article – Annual report year: 2006

Investigation of fluid dynamics during capillary filling in low aspect ratio SiO2 nanochannels
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Lab-on-a-chip Lasers
Research output: Research - peer-review › Paper – Annual report year: 2006

Lab-on-a-chip Lasers
Research output: Research - peer-review › Poster – Annual report year: 2006

Lab-on-a-chip with integrated optical transducers
Research output: Research - peer-review › Journal article – Annual report year: 2006

Levitated droplet dye laser
Research output: Research - peer-review › Journal article – Annual report year: 2006

Levitated Droplet Dye Laser
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Long-Range Surface Plasmon Polariton Devices Fabricated by Nanoimprint Lithography
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Micro-fabricated single mode polymer dye laser
Research output: Research - peer-review › Journal article – Annual report year: 2006

Microfluidic Dye Lasers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Micro-Fluidic Dye Ring Laser - Experimental Tuning of the Wavelength and Numerical Simulation of the Cavity Modes
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Nanocomposites Based on Luminescent Colloidal Nanocrystal and Thermoplastic Polymer For Fabrication of Optical Elements
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Nanoimprinted Long-range Surface Plasmon Polariton Waveguide Components
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Nanoimprint Fabrication of Long-Range Surface Plasmon Polariton Devices
Research output: Research › Conference abstract for conference – Annual report year: 2006

Nanoimprint lithography fabrication of photonic crystal devices
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Nanoimprint Lithography of Topology Optimized Photonic Crystal Devices
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Nanoimprint Lithography of Topology Optimized Photonic Crystal Devices
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006
Optical characterisation of photonic wire and photonic crystal waveguides fabricated using nanoimprint lithography
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Optofluidic third order distributed feedback dye laser
Research output: Research - peer-review › Journal article – Annual report year: 2006

Optofluidic third order distributed feedback dye laser
Research output: Research - peer-review › Journal article – Annual report year: 2006

Polymer-based nano-fluidic dye laser
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Pushing the limits of deterministic Lateral displacement
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Real-time tunability of chip-based light source enabled by microfluidic mixing
Research output: Research - peer-review › Journal article – Annual report year: 2006

Single mode and tunable microfluidic dye lasers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Single-step NIL of micro and nanochannels combined with optical waveguides for characterization of DNA molecules
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Ultra-compact Low Pressure Nanoimprint System With Automated Demolding
Research output: Research › Conference abstract for conference – Annual report year: 2006

Wafer-scale fabrication of polymer distributed feedback lasers
Research output: Research - peer-review › Journal article – Annual report year: 2006

Wafer-scale Fabrication of Single Mode Polymer DFB Lasers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Polymer based miniaturized dye lasers for lab-on-a-chip-systems
Research output: Research › Ph.D. thesis – Annual report year: 2005

20 nm Nanoimprint Lithography Stamps RIE-Etched in Silicon Using Carbon Nanotubes as Etch Masks
Research output: Research › Poster – Annual report year: 2005

A coupled cavity microfluidic dye ring laser
Research output: Research - peer-review › Journal article – Annual report year: 2005

A microfluidic dye laser fabricated by nanoimprint lithography in a highly transparent and chemically resistant cyclo-olefin copolymer (COC)
Research output: Research - peer-review › Journal article – Annual report year: 2005

A nanoimprinted polymer lab-on-a-chip with integrated optics
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005
A polymer lab-on-a-chip with integrated optics fabricated by nanoimprint lithography
Research output: Research - peer-review › Poster – Annual report year: 2005

Flexible Stamp for Nanoimprint Lithography
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

Flexible stamp for thermal nanoimprint lithography
Research output: Research - peer-review › Poster – Annual report year: 2005

Fully integrated optical systems for lab-on-a-chip applications
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

Functionised SU-8 patterned with X-ray lithography
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

High Pattern Density Nanoimprint Lithography Stamps Fabricated by Means of Negative Electron Beam Lithography Resist and dry Etching in Silicon
Research output: Research - Poster – Annual report year: 2005

High pattern density nanoimprint lithography stamps fabricated by means of negative electron beam lithography resist, TEBN-1, and dry etching in silicon
Research output: Research - peer-review › Poster – Annual report year: 2005

Laser devices via greyscale EBL on functionalized SU-8
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

Low pressure thermal nanoimprint with automatic demolding
Research output: Research - peer-review › Poster – Annual report year: 2005

Micro-fabricated solid state dye lasers based on a photo-definable polymer
Research output: Research - peer-review › Journal article – Annual report year: 2005

Microfluidic Single Mode Laser Using High Order Bragg Grating and Antiguiding Segments
Research output: Research - peer-review › Journal article – Annual report year: 2005

Nanochannels for DNA stretching fabricated on wafer scale by nanoimprint lithography with a stamp fabricated by 100 kV electron beam lithography in SU-8
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

Nanoscale silicon structures by using carbon nanotubes as reactive ion etch masks
Research output: Research - peer-review › Journal article – Annual report year: 2005

Nano-scale silicon structures by using Carbon nanotubes as reactive ion mask
Research output: Research - peer-review › Journal article – Annual report year: 2005

Polymer microcavity dye laser based on a single mode SU-8 planar waveguide
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

Single mode solid state distributed feedback dye laser fabricated by grey scale electron beam lithography on dye doped SU-8 resist
Research output: Research - peer-review › Journal article – Annual report year: 2005
Single-mode solid-state polymer dye lasers fabricated with standard I-line UV lithography
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

Technology for Fabrication of Nanostructures by Standard Cleanroom Processing and Nanoimprint Lithography
Research output: Research - peer-review › Journal article – Annual report year: 2005

Topas based lab-on-a-chip microsystems fabricated by thermal nanoimprint lithography
Research output: Research - peer-review › Poster – Annual report year: 2005

Topas Based Lab-on-a-chip Microsystems Fabricated by Thermal Nanoimprint Lithography
Research output: Research - peer-review › Conference article – Annual report year: 2005

A Coupled Cavity Micro Fluidic Dye Ring Laser
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

A microfluidic dye laser fabricated by nanoimprint lithography in a highly transparent and chemically resistant polymer (COC)
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

A nanoimprinted microfluidic dye laser
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

A Nanoimprinted polymer microfluidic dye laser
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Cyclic Olefin Copolymer (COC/Topas) - an exceptional material for exceptional lab-on-a-chip systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Dissolution Investigations of TOPAS for Homogeneous Imprints
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Flexible Stamp for Homegenous Large Area Thermal NIL
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Fully integrated optical system for lab-on-a-chip applications
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

High order Bragg grating microfluidic dye laser
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Integration of optics and microfluidics for a lab-on-a-chip system
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Liquid droplet dye laser
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Microfluidic dye laser with compact, low-cost liquid dye dispenser
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Microtas with integrated optical transducers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004
Molded plastic micro-cavity lasers
Research output: Research - peer-review › Journal article – Annual report year: 2004

Nanochannels for DNA Stretching Fabricated by Standard Cleanroom Processing and Nanoimprint Lithography
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Nanoimprint lithography in the cyclic olefin copolymer, Topas, a highly ultraviolet-transparent and chemically resistant thermoplast
Research output: Research - peer-review › Journal article – Annual report year: 2004

Nanoimprint lithography in Topas, a highly UV-transparent and chemically resistant thermoplast
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Nanoimprint lithography in Topas, a highly UV-transparent and chemically resistant thermoplast
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Nanoimprint lithography of PMMA lasers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Nanoimprint lithography of Topas, a new thermoplastic with excellent properties for lab-on-a-chip applications
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

PMMA to SU-8 bonding for polymer based lab-on-a-chip systems with integrated optics
Research output: Research - peer-review › Journal article – Annual report year: 2004

"Polymer based lab-on-a-chip lasers"
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Smooth sub-30 nm stamps for nanoimprint lithography fabricated by standard UV-lithography and oxidation
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Solid Polymer Dye Laser Based on a Single Mode SU-8 Planar Waveguide
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Solid state microcavity dye lasers fabricated by nanoimprint lithography
Research output: Research - peer-review › Journal article – Annual report year: 2004

µTAS with integrated optical transducers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Thermal Nanoimprint Lithography using Carbon Nanotubes
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Towards fabrication of smooth nanofluidic channels through NIL with carbon nanotube stamps
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

A Micro-Cavity Fluidic Dye Laser
Research output: Research - peer-review › Journal article – Annual report year: 2003
Projects:
Electron energy-loss spectroscopy of reconfigurable meta-atoms
Project: PhD

Remotely Adjustable Structural Plasmonic Colour
Project: Research

Optofluidics for the Analysis of Turbid Liquids
Project: PhD

Evanescent wave absorption spectroscopy for hemolysis detection
Project: PhD

Low Cost polymer photonic crystal laser intra-cavity sensors
Project: PhD

Design, fabrication and testing of support structures for biomimetic water filters
Project: PhD

Fluid Control and Manoliter Dispensing in a Chip for Single Cell Array Analysis
Project: PhD

Nano-structured filters
Project: PhD

Optofluidic Applications of Diblock Copolymer Derived Nanoporous Polymers
Project: PhD

Metamaterials for on-chip-nano-manipulation and imaging
Project: PhD

Polymer Dye Micro-Cavity Lasers
Project: PhD

Fabrication and Characterization of Semiconductor Optical Devices
Project: PhD

Window Pane Coating for photon harvesting
Project: PhD

Programable Wavelength Selective MDEMS Devices
Project: PhD

Nanofluidic Devices for DNA Analysis
Project: PhD

Polymer Based Nano Optics for Lab-On-A-Chip Micro System
Project: PhD

Pinched flow fractionation - Technology and Application
Project: PhD
Nanofluidics for ssDNA analysis
Project: PhD

Metamaterialer til lab-on-a-chip applikationer
Project: PhD

Carbon Nanotube Force Sensors Integrated in Microcantilevers
Project: PhD

Kvanteprikbaserede lyskilder til polymer lab-on-a-chip
Project: PhD

MEMS-Teknologi i Nanoimprint Litografi
Project: PhD

All-Polymer Biosensors in Microfluidic System
Project: PhD

Microfluidics for single cell analysis
Project: PhD

Structural Colors in Plastic
Project: PhD

Plasmonic nanostructures for energy harvesting
Project: PhD

Structural color effects on plastic surfaces
Project: PhD

Nanostructured polymer surfaces for optical functionality
Project: PhD

Reconfigurable photonic crystals
Project: PhD

Opto-Thermal actuation in micro and fluidics
Project: PhD

Nanoimprint litografi for optofluidik
Project: PhD

High Throughput Systematic Single Cell Genomics using Micro/Nano-Fluidic Chips for Extracting, Pre-analysing, Selecting and Preparing Sequence-ready DNA
Project: Research

Polymer farvestof mikrokavitets lasere
Project: Research

Activities:
Talk about 1,2-Polybutadine nanoporous liquid core polymer waveguides, presented at COMS09
Activity: Talks and presentations › Conference presentations

8th International Symposium on Photonic and Electromagnetic Crystal Structures
Activity: Attending an event › Participating in or organising a conference

APS March Meeting 2009
Activity: Attending an event › Participating in or organising a conference

APS March Meeting 2009
Activity: Attending an event › Participating in or organising a conference

APS March Meeting 2009
Activity: Attending an event › Participating in or organising a conference

APS March Meeting 2009
 Activity: Attending an event › Participating in or organising a conference

The 7th International Conference on Nanoimprint and Nanoprint Technology
Activity: Attending an event › Participating in or organising a conference

12th International Conference on Miniaturized Systems for Chemistry and Life Sciences
Activity: Attending an event › Participating in or organising a conference

34th International Conference on Micro and Nano Engineering
Activity: Attending an event › Participating in or organising a conference

Talk about "Fabrication of Cantilevers by Nanoimprint Lithography" Presented at "International Workshop on Cantilever sensors"
Activity: Talks and presentations › Conference presentations

Activity: Attending an event › Participating in or organising a conference

Activity: Attending an event › Participating in or organising a conference

2008 APS March Meeting
Activity: Attending an event › Participating in or organising a conference

2008 APS March Meeting
Activity: Attending an event › Participating in or organising a conference