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
Zhou, C., Keshavarz Hedayati, M. & Kristensen, A. 2018 In : Optics Express. 26, 19, p. 24372-24383
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.
Emnéus, J., Bunea, A-I., Keller, S. S., Kristensen, A. & Heiskanen, A. 2018 C12Q1/00; G01N33/50; G01N33/5434 Jan 2018 29 Jun 2016EP20160176841
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
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
Vestergaard, C. L., Mikkelsen, M. B. L., Reisner, W., Kristensen, A. & Flyvbjerg, H. 2016 In: Nature Communications. 7, 9 p., 10227
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 › Conference abstract in proceedings – 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

Nanoinprinted distributed feedback dye laser sensors for high frame rate refractometric imaging of dissolution and fluid flow
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 › Journal article – Annual report year: 2015

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.
Kristensen, A., Højlund-Nielsen, E., Mortensen, N. A. & Nørregaard, J. 2014 G02B1/00; G02B5/00; G02B5/1811 Dec 2014 4 Jun 2013EP20130170492
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

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
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
Smistrup, K., Narregaard, J., Mironov, A., Bro, T. H., Bilenberg, B., Nielsen, T., Hansen, O., Kristensen, A., Rishton, S., Khan, F., Emanuel, M., Ma, Y. & Zhang, Y. 2013
Research output: Research - peer-review › Poster – Annual report year: 2013

Electrically modulated transparent liquid crystal-optical grating projection
Buss, T., Smith, C. & Kristensen, A. 2013 In : Optics Express. 21, 2, p. 1820-1829
Research output: Research - peer-review › Journal article – Annual report year: 2013

Enhancing the chroma of pigmented polymers using antireflective surface structures
Clausen, J. S., Christiansen, A. B., Kristensen, A. & Mortensen, N. A. 2013 In : Applied Optics. 52, 32, p. 7832-7837
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

Fully Stretched 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
Christiansen, A. B., Clausen, J. S., Mortensen, N. A. & Kristensen, A. 2013 4 p.
Research output: Research - peer-review › Poster – Annual report year: 2013

Injection moulding antireflective nanostructures
Christiansen, A. B., Clausen, J. S., Mortensen, N. A. & Kristensen, A. 2013 4 p.
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 TiO2 thin films: Design guidelines for high performance sensing
Vannahme, C., Smith, C., Leung, M. C., Richter, F., Hermannsson, P. G. & Kristensen, A. 2013 In : Laser & Photonics Reviews. 7, 6, p. 1036-1042
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
Khoury Arvelo, M., Vannahme, C., Sørensen, K. T., Kristensen, A. & Berg-Sørensen, K. 2013 1 p.
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Single-mode biological distributed feedback laser
Vannahme, C., Maier-Flaig, F., Lemmer, U. & Kristensen, A. 2013 In : Lab on a Chip. 13, 14, p. 2675-2678
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 - peer-review › 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
Østergaard, P. F., Matteucci, M., Marie, R., Kristensen, A. & Taboryski, R. J. 2012
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.
Clausen, J., Christiansen, A. B., Garnaes, J., Mortensen, N. A. & Kristensen, A. 2012 In : Optics Express. 20, 4, p. 4376-4381
Research output: Research - peer-review › Journal article – Annual report year: 2012

Diffusion driven optofluidic dye lasers encapsulated into polymer chips
Wienhold, T., Breithaupt, F., Vannahme, C., Brøkner Christiansen, M., Döfler, W., Kristensen, A. & Mappes, T. 2012 In : Lab on a Chip. 12, 19, p. 3734-3739
Research output: Research - peer-review › Journal article – Annual report year: 2012

Direct laser writing for nanoporous liquid core laser sensors
Grossmann, T., Christiansen, M. B., Peterson, J., Kalt, H., Mappes, T. & Kristensen, A. 2012 In : Optics Express. 20, 16, p. 17467-17473
Research output: Research - peer-review › Journal article – Annual report year: 2012
Optofluidic Applications of Diblock Copolymer Derived Nanoporous Polymers
Gopalakrishnan, N., Kristensen, A. & Christiansen, M. B. Sep 2011 Kgs. Lyngby, Denmark: Technical University of Denmark (DTU).
Research output: Research › Ph.D. thesis – Annual report year: 2011

Metamaterials 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 hemiwickinng
Mikkelsen, M. B. L., Marie, R., Hansen, J. H., Wencel, D., McDonagh, C., Nielsen, H. O. & Kristensen, A. 2011 In : Journal of Micromechanics and Microengineering. 21, 11, p. 115008
Research output: Research - peer-review › Journal article – Annual report year: 2011

Deposition of sol-gel sensor spots by nanoimprint lithography and hemi-wicking
Mikkelsen, M. B. L., Marie, R., Nielsen, H. O. & Kristensen, A. 2011 In : Proceedings of the SPIE - The International Society for Optical Engineering. 8102, p. 81020N
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
Jeppesen, C., Xiao, S., Mortensen, A. & Kristensen, A. 2011 In : Optics Communications. 284, 3, p. 799-801
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
Christiansen, A. B., Cech, J., Kristensen, A. & Taboryski, R. J. 2011
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 nanofluidic chips: Fabrication method and functional tests using single-molecule DNA experiments
Utko, P., Persson, K. F., Kristensen, A. & Larsen, N. B. 2011 In : Lab on a Chip. 11, 2, p. 303-308
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 › Conference abstract for conference – Annual report year: 2011

Large area color effects in polymer replica of black silicon
Research output: Research - peer-review › Poster – 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
Sagar, K. S., Gopalakrishnan, N., Christiansen, M. B., Kristensen, A. & Ndoni, S. 2011 In : Journal of Micromechanics and Microengineering. 21, 9, p. 095001
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
Marie, R., Vig, A. L., Christiansen, M. B. & Kristensen, A. 2011 7 Apr 2011
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 og 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
Zhang, J., Xiao, S., Jeppesen, C., Kristensen, A. & Mortensen, A. 2010 In : Optics Express. 18, 16, p. 17187-17192
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 › Article in proceedings – 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
Jeppesen, C., Xiao, S., Mortensen, A. & Kristensen, A. 2010 In : Optics Express. 18, 24, p. 25075-25080
Research output: Research - peer-review › Journal article – Annual report year: 2010
Modeling of DNA in Nanochannels using linear elasticity theory
Pedersen, J. N., Mikkelsen, M. B. L., Reisner, W., Kristensen, A. & Flyvbjerg, H. 2010
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 › Conference article – Annual report year: 2010

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

Nanoporous polymer liquid core waveguides
Research output: Research › 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.
Gopalakrishnan, N., Sagar, K. S., Christiansen, M. B., Vigild, M. E., Ndoni, S. & Kristensen, A. 2010
Research output: Research › peer-review › Poster – Annual report year: 2010

Optofluidic dye laser in a foil
Vannahme, C., Christiansen, M. B., Mappes, T. & Kristensen, A. 2010 In : Optics Express. 18, 9, p. 9280-9285
Research output: Research › peer-review › Journal article – Annual report year: 2010

Optofluidic microscope with 3D spatial resolution
Vig, A. L., Marie, R., Jensen, E. & Kristensen, A. 2010 In : Optics Express. 18, 5, p. 4158-4169
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
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-photronics: [invited]
Research output: Research - peer-review \ Article in proceedings – Annual report year: 2009

Fabricating plasmonic components for nano-and meta-photronics
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]
Boltasseva, A., West, P., Nielsen, R. B., Jeppesen, C. & Kristensen, A. 2009 SPIE Optics and Photonics: Plasmonics. San Diego, California, USA
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 \ Article in proceedings – 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
Gopalakrishnan, N., Sagar, K. S., Christiansen, M. B., Vigild, M. E., Ndoni, S. & Kristensen, A. 2009
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
Gersborg-Hansen, M. & Kristensen, A. Apr 2008
Research output: Research › Ph.D. thesis – Annual report year: 2008

A compact system for large-area thermal nanoimprint lithography using smart stamps
Pedersen, R. H., Hansen, O. & Kristensen, A. 2008 In : Journal of Micromechanics and Microengineering. 18, 5, p. 055018
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
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 Microfluidie seperation 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

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

Stretching DNA in polymer nanochannels fabricated by thermal imprint in PMMA
Thamdrup, L. H., Klukowska, A. & Kristensen, A. 2008 In : Nanotechnology. 19, 12
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
Gersborg-Hansen, M. & Kristensen, A. 2007 Proceeding SPIE. Vol. 6645
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

Combined electron beam and UV lithography in SU-8
Gersborg-Hansen, M., Thamdrup, L. H., Mironov, A. & Kristensen, A. 2007 In : Microelectronic Engineering. 84, p. 1058-1061
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
Christiansen, M. B., Schøler, M. & Kristensen, A. 2007 Proceeding SPIE. Vol. 6645
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 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
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

Stripes, 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
Gersborg-Hansen, M. & Kristensen, A. 2007 In : Optics Express. 15, 1, p. 137-142
Research output: Research - peer-review › Journal article – Annual report year: 2007

Tunable Optofluidic Third Order DFB Dye Laser
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

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

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

Polymer dye lasers
Balslev, S. & Kristensen, A. Apr 2006 144 p.
Research output: Research › Ph.D. thesis – Annual report year: 2006

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

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

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

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

Grey scale electron beam lithography in functionalized SU-8 for active optical devices
Research output: Research - peer-review › 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 - peer-review › 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
Balslev, S., Mironov, A., Nilsson, D. & Kristensen, A. 2006 In : Optics Express. 14, 6, p. 2170-2177
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 Devises
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
Pedersen, R. H., Hansen, O. & Kristensen, A. 2006
Research output: Research › Conference abstract for conference – Annual report year: 2006

Wafer-scale fabrication of polymer distributed feedback lasers
Research output: Research › 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
Schmidt, M. S., Nielsen, T., Schurmann, T., Madsen, D. N., Kristensen, A. & Bøggild, P. 2005
Research output: Research › Poster – Annual report year: 2005

A coupled cavity microfluidic dye ring laser
Gersborg-Hansen, M., Balslev, S., Mortensen, N. A. & Kristensen, A. 2005 In : Microelectronic Engineering. 78-79, p. 185-189
Research output: Research › 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 › 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
Hansen, M., Balslev, S. & Kristensen, A. 2005
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
Nielsen, T., Pedersen, R. H., Hansen, O., Ahopelto, J. & Kristensen, A. 2005
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
Functionalised SU-8 patterned with X-ray lithography
Research output: Research › 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 › poster – Annual report year: 2005

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

Low pressure thermal nanoimprint with automatic demolding
Pedersen, R. H., Kristensen, A., Nielsen, T. & Hansen, O. 2005
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
Schmidt, M. S., Nielsen, T., Madsen, D. N., Kristensen, A. & Bøggild, P. 2005 In : Nanotechnology. 16, 6, p. 750-753
Research output: Research › peer-review › Journal article – Annual report year: 2005

Nanoscale silicon structures by using Carbon nanotubes as reactive ion mask
Schmidt, M. S., Nielsen, T., Madsen, D. N., Kristensen, A. & Bøggild, P. 2005 In : Nanotechnology. 16, 6, p. 750-753
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
Balslev, S., Rasmussen, T., Shi, P. & Kristensen, A. 2005 In : Journal of Micromechanics and Microengineering. 15, 12, p. 2456-2460
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
Jørgensen, A. M., Balslev, S., Olsen, B. B., Geschke, O., Kristensen, A., Kutter, J. P., Mogensen, K. B. & Snakenborg, D.
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
Nilsson, D., Nielsen, T. & Kristensen, A. 2004 In : Microelectronic Engineering. 73-74, p. 372-376
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 thermoplastic
Research output: Research - peer-review › Journal article – Annual report year: 2004

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

Nanoimprint lithography in Topas, a highly UV-transparent and chemically resistant thermoplastic
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 thermoplast 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
Olsen, B. B., Nielsen, T., Clausen, B. H. & Kristensen, A. 2004 In : Journal of Micromechanics and Microengineering. 14, 6 , p. 814-818
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
A Nano-Imprinted Plastic Laser
Research output: Research - peer-review › Article in proceedings – Annual report year: 2003

Improved Microfluidic Design of an On-Chip Tunable Dye Laser
Research output: Research - peer-review › Article in proceedings – Annual report year: 2003

Investigation of the dye concentration influence on the lasing wavelength and threshold for a micro-fluidic dye laser
Research output: Research - peer-review › Conference article – Annual report year: 2003

Micro-Cavity Fluidic Dye Laser
Research output: Research - peer-review › Article in proceedings – Annual report year: 2003

Miniaturized solid state dye lasers based on a photo-definable polymer
Research output: Research - peer-review › Article in proceedings – Annual report year: 2003

Nanoimprint lithography of polymer micro cavity dye lasers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2003

Patterning of a highly UV-transparent and chemically resistant thermoplast, Topas, by nanoimprint lithography

SU-8 Based Solid State Dye Lasers For Lab-on-a-Chip Microsystems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2003

Tunability of Microfluidic Dye Lasers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2003

Tunable Microfluidic Dye Laser
Research output: Research › Article in proceedings – Annual report year: 2003

Bias dependent subband edges and the 0.7 conductance anomaly
Research output: Research - peer-review › Journal article – Annual report year: 2002

Observation of novel temperature dependencies in the conductance of quantum point contacts
Research output: Research - peer-review › Article in proceedings – Annual report year: 2002
Silicon mold for casting polymer optics
Research output: Research - peer-review › Article in proceedings – Annual report year: 2002

Temperature dependent deviations from ideal quantization of plateau conductances in GaAs quantum point contacts
Research output: Research - peer-review › Article in proceedings – Annual report year: 2002

Decoherence in Aharonov-Bohm rings
Research output: Research - peer-review › Article in proceedings – Annual report year: 2001

Decay Lengths for Diffusive Transport Activated by Andreev Reflections in Al/n-GaAs/Al Superconductor-Semiconductor-Superconductor Junctions
Research output: Research - peer-review › Journal article – Annual report year: 1997

Projects:

Electron energy-loss spectroscopy of reconfigurable meta-atoms
Assadillayev, A., Kristensen, A., Raza, S. & Wagner, J. B.
Samfinansieret - Andet
01/09/2018 → 31/08/2021
Project: PhD

Smart Colour: Remotely Adjustable Structural Plasmonic Colour
Keshavarz Hedayati, M., Kristensen, A. & Mortensen, N. A.
01/07/2016 → 30/06/2018
Project: Research

Optofluidics for the Analysis of Turbid Liquids
Matthiae, M., Kristensen, A., Raza, S. & Zhu, X.
Offentlig finansiering
01/12/2015 → 30/11/2018
Project: PhD

Evanescent wave absorption spectroscopy for hemolysis detection
Zhou, C., Kristensen, A., Keshavarz Hedayati, M., Taboryski, R. J., Jensen, J. R. & Schift, H.
Samfinansieret - Andet
15/08/2015 → 14/08/2018
Project: PhD

Low Cost polymer photonic crystal laser intra-cavity sensors
Sørensen, K. T., Kristensen, A., Lindvold, L. R., Lindvold, L. R., Mortensen, N. A. & Mortensen, N. A.
Samfinansieret - Andet
01/08/2014 → 03/05/2018
Project: PhD

Design, fabrication and testing of support structures for biomimetic water filters
Vogel, J., Emméus, J., Geschke, O., Hélix-Nielsen, C., Kristensen, A., Thomsen, P. T. & Verpoorte, E. M. J.
ErhvervsPhD-ordningen VTU
01/01/2008 → 20/04/2011
**Fluid Control and Manoliter Dispensing in a Chip for Single Cell Array Analysis**
Bouaidat, S., Wolff, A., Jonsmann, J., Kristensen, A., Gravesen, P. & Manz, A.
Erhvervsforskerordningen
01/11/2001 → …
Project: PhD

**Nano-structured filters**
Programbevilling
01/09/2007 → 20/04/2011
Project: PhD

**Optofluidic Applications of Diblock Copolymer Derived Nanoporous Polymers**
Gopalakrishnan, N., Kristensen, A., Christiansen, M. B., Thomsen, P. T., Bruus, H., Balslev, S. & Marcel Joachim Mappes, T.
Forskningsrådsfinansiering
01/06/2008 → 14/09/2011
Project: PhD

**Metamaterials for on-chip-nano-manipulation and imaging**
Nielsen, R. B., Hvam, J. M., Boltasseva, A., Kristensen, A., Lavrinenko, A., Maier, S. & Rubahn, H.
Forskningsrådsfinansiering
01/10/2007 → 25/05/2011
Project: PhD

**Polymer Dye Micro-Cavity Lasers**
Balslev, S., Kristensen, A., Mørk, J., Lading, L. & Turnbull, G. A.
Forskningsrådsfinansiering
01/02/2003 → 31/05/2006
Project: PhD

**Fabrication and Characterization of Semiconductor Optical Devices**
Larsson, D., Hvam, J. M., Yvind, K., Kristensen, A., McInerney, J. & Petersen, P. M.
Forskningsrådsfinansiering
15/01/2003 → 30/04/2007
Project: PhD

**Window Pane Coating for photon harvesting**
Buss, T., Kristensen, A., Smith, C., Petersen, P. M., Buchwald, K. & Turnbull, G. A.
Institut, samfinansiering
15/11/2009 → 04/04/2013
Project: PhD

**Programable Wavelength Selective MDEMS Devices**
Nilsson, J. D. G., Menon, A. K., Kristensen, A., Hansen, O. & Torres, C. M. S.
DTU, Samfinansiering
01/02/2002 → 15/05/2005
Project: PhD

**Nanofluidic Devices for DNA Analysis**
Persson, K. F., Kristensen, A., Hassager, O., Eijkel, J. C. T. & Mortensen, K.
DTU-lønnet stipendie
01/03/2006 → 24/06/2009
Project: PhD
Polymer Based Nano Optics for Lab-On-A-Chip Micro System
Gersborg-Hansen, M., Kristensen, A., Petersen, P. M., Drewsen, M. & Levy, U.
DTU-lønnet stipendie
15/12/2004 → 30/04/2008
Project: PhD

Pinched flow fractionation - Technology and Application
DTU-lønnet stipendie
15/12/2006 → 30/06/2010
Project: PhD

Nanofluidics for ssDNA analysis
Thamdrup, L. H. E., Kristensen, A., Larsen, N. B., Berg-Sørensen, K., Erickson, D. & Schweitz, K. O.
DTU-lønnet stipendie
15/11/2006 → 24/03/2010
Project: PhD

Metamaterialer til lab-on-a-chip applikationer
DTU-lønnet stipendie
15/12/2007 → 20/04/2011
Project: PhD

Carbon Nanotube Force Sensors Integrated in Microcantilevers
Kjelstrup-Hansen, J., Bøggild, P., Brandbyge, M., Kristensen, A., Lindelof, P. E. & Walzer, K.
DTU-lønnet stipendie
01/10/2003 → 30/01/2007
Project: PhD

Kvanteprikbaserede lyskilder til polymer lab-on-a-chip
Christiansen, M. B., Kristensen, A., Hvam, J. M., Eggleton, B. J. & Nørregaard, J.
DTU-lønnet stipendie
15/12/2005 → 29/04/2009
Project: PhD

MEMS-Teknologi i Nanoimprint Litografi
Pedersen, R. H., Kristensen, A., Hansen, O., Jensen, F., Bozhevolnyi, S. I. & Scheer, H.
DTU-lønnet stipendie
01/10/2005 → 03/03/2010
Project: PhD

All-Polymer Biosensors in Microfluidic System
Forskningsrådsfinansiering
01/01/2007 → 24/08/2011
Project: PhD

Microfluidics for single cell analysis
Jensen, M. P., Marie, R., Kristensen, A., Bruus, H., Kutter, J. P. & Laurell, T.
Grundforskningsfonden
15/09/2012 → 09/12/2015
Project: PhD

Structural Colors in Plastic
Højlund-Nielsen, E., Kristensen, A., Mortensen, N. A., Hansen, O., Schift, H. & Yang, J.
1/3 FUU, 1/3 inst 1/3 Andet
01/09/2012 → 16/03/2016
Plasmonic nanostructures for energy harvesting
Institut stipendie (DTU) Samf.
01/10/2011 → 12/12/2014
Project: PhD

Structural color effects on plastic surfaces
Christiansen, A. B., Kristensen, A., Mortensen, N. A., Lavrinenko, A., Ahopelto, J. K. & Sutherland, D.
Institut stipendie (DTU) Samf.
01/04/2011 → 20/08/2014
Project: PhD

Nanostructured polymer surfaces for optical functionality
Clausen, J. S., Mortensen, N. A., Kristensen, A., Hansen, O., Bozhevolnyi, S. I. & Shin, J. H.
Institut stipendie (DTU) Samf.
01/08/2011 → 30/09/2014
Project: PhD

Reconfigurable photonic crystals
Institut stipendie (DTU) Samf.
01/10/2011 → 23/09/2015
Project: PhD

Opto-Thermal actuation in micro and fluidics
Lüscher, C. J., Kristensen, A., Marie, R., Mortensen, N. A., Levy, U. & Montelius, L.
Institut stipendie (DTU)
01/10/2010 → 15/01/2014
Project: PhD

Nanoimprint litografi for optofluidik
Mikkelsen, M. B. L., Kristensen, A., Larsen, N. B., Eijkel, J. C. T. & Montelius, L.
Forskningsrådetsfinansiering
01/09/2008 → 21/02/2012
Project: PhD

Kristensen, A. & Bjerrum, A.
01/01/2012 → 31/12/2015
Project: Research

Polymer farvestof mikrokavitets lasere
Kristensen, A.
Forskningsrådene - STVF
26/07/2002 → 31/07/2005
Project: Research

Activities:

1. Talk about 1,2-Polybutadine nanoporous liquid core polymer waveguides, presented at COMS09
Kristensen, A. (Speaker)
30 Aug 2009 → 4 Sep 2009
Activity: Talks and presentations › Conference presentations
8th International Symposium on Photonic and Electromagnetic Crystal Structures
Kristensen, A. (Participant)
5 Apr 2009 → 9 Apr 2009
Activity: Attending an event › Participating in or organising a conference

APS March Meeting 2009
Kristensen, A. (Participant)
16 Mar 2009 → 20 Mar 2009
Activity: Attending an event › Participating in or organising a conference

APS March Meeting 2009
Kristensen, A. (Participant)
16 Mar 2009 → 20 Mar 2009
Activity: Attending an event › Participating in or organising a conference

APS March Meeting 2009
Kristensen, A. (Participant)
16 Mar 2009 → 20 Mar 2009
Activity: Attending an event › Participating in or organising a conference

APS March Meeting 2009
Kristensen, A. (Participant)
16 Mar 2009 → 20 Mar 2009
Activity: Attending an event › Participating in or organising a conference

The 7th International Conference on Nanoimprint and Nanoprint Technology
Kristensen, A. (Participant)
Activity: Attending an event › Participating in or organising a conference

12th International Conference on Miniaturized Systems for Chemistry and Life Sciences
Kristensen, A. (Participant)
Activity: Attending an event › Participating in or organising a conference

34th International Conference on Micro and Nano Engineering
Kristensen, A. (Participant)
15 Sep 2008 → 18 Sep 2008
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"
Kristensen, A. (Speaker)
19 May 2008 → 21 May 2008
Activity: Talks and presentations › Conference presentations
Kristensen, A. (Participant)
4 May 2008 → 9 May 2008
Activity: Attending an event › Participating in or organising a conference

2008 APS March Meeting
Kristensen, A. (Participant)
10 Mar 2008 → 14 Mar 2008
Activity: Attending an event › Participating in or organising a conference