Concentration of nanoparticles and/or microparticles in flow conditions by dielectrophoresis
Rozlosnik, N., Dimaki, M., Olsen, M. H. & Svendsen, W. E. 8 Sep 2017
Publication: Research › Patent – Annual report year: 2017

In-situ doped junctionless polysilicon nanowires field effect transistors for low-cost biosensors
Publication: Research - peer-review › Journal article – Annual report year: 2017

A new application of plant virus nanoparticles as drug delivery in breast cancer
Publication: Research - peer-review › Journal article – Annual report year: 2015

Electrochemical sensing of biomarker for diagnostics of bacteria-specific infections
Publication: Research - peer-review › Journal article – Annual report year: 2016

Fast Selective Detection of Pyocyanin Using Cyclic Voltammetry
Functionalization and microfluidic integration of silicon nanowire biologically gated field effect transistors
Publication: Research › Journal article – Annual report year: 2016

Microfluidic System for Culturing and Monitoring of Neuronal Cells and Tissue
Publication: Research › Ph.D. thesis – Annual report year: 2016

Model-Based Evaluation Of System Scalability: Bandwidth Analysis For Smartphone-Based Biosensing Applications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Smartphone-based biosensing platform evolution: implementation of electrochemical analysis capabilities
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

An easy-to-use microfluidic interconnection system to create quick and reversibly interfaced simple microfluidic devices
Publication: Research - peer-review › Journal article – Annual report year: 2015

Basic Microfluidics Theory
Publication: Research - peer-review › Book chapter – Annual report year: 2015

Coplanar Electrode Layout Optimized for Increased Sensitivity for Electrical Impedance Spectroscopy
Publication: Research - peer-review › Journal article – Annual report year: 2015

Early Detection Of Bacterial Infections By Electrochemistry
Publication: Research - peer-review › Poster – Annual report year: 2015

Early Detection Of Chronic Bacterial Infections By Microsensors
Publication: Research - peer-review › Poster – Annual report year: 2015

Electrochemical detection of pyocyanin as a biomarker for bacterial infections
Publication: Research - peer-review › Poster – Annual report year: 2015

Fabrication and Characterisation of Membrane-Based Gold Electrodes
Publication: Research - peer-review › Journal article – Annual report year: 2015
A flexible mobile-device biosensing instrumentation platform for point-of-care medical diagnostics applications
Publication: Research - peer-review › Poster – Annual report year: 2014

A flexible mobile-device biosensing instrumentation platform for point-of-care medical diagnostics applications
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

A novel single-step, multipoint calibration method for instrumented Lab-on-Chip systems
Publication: Research - peer-review › Poster – Annual report year: 2014

A novel single-step, multipoint calibration method for instrumented Lab-on-Chip systems
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Application of versatile electrochemical sensor in cell culturing
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

AquaVir- Portable Analyzer for Water Borne Infectious Viruses
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

A Semi-Closed Device for Chromosome Spreading for Cytogenetic Analysis
Publication: Research - peer-review › Journal article – Annual report year: 2014

Electrochemical detection of chromosome translocation
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Electrochemistry in a centrifugal microfluidic system: Towards a novel point-of-care technology platform
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Finger prick blood plasma separation using a standard lab equipment
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Finger prick blood plasma separation using a standard lab equipment
Publication: Research - peer-review › Poster – Annual report year: 2014

Finger prick blood plasma separation using standard lab equipment
Publication: Research - peer-review › Poster – Annual report year: 2014
Label-free protein detection using a microfluidic Coulter-counter device
Publication: Research - peer-review › Journal article – Annual report year: 2014

Multifunctional sensing membrane-based platform for tissue or cell culturing and monitoring
Publication: Research › Patent – Annual report year: 2014

Nanoscaled biological gated field effect transistors for cytogenetic analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

New approach of long-term modification of Topas® to acquire surface hydrophilicity for chromosome spreading
Publication: Research - peer-review › Journal article – Annual report year: 2014

Novel electrochemical sensor for lab-on-a-chip and biomedical technology
Publication: Research - peer-review › Poster – Annual report year: 2014

Novel membrane-based electrochemical sensor for real-time bio-applications.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Real-time multiparameter monitoring of cellular dynamics: an automated microfluidic electrochemical analysis platform
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Study of Paclitaxel-Treated HeLa Cells by Differential Electrical Impedance Flow Cytometry
Publication: Research - peer-review › Journal article – Annual report year: 2014

Synthesis and characterization of covalent diphenylalanine nanotube-folic acid conjugates
Publication: Research - peer-review › Journal article – Annual report year: 2014

Synthesis of amphiphilic diblock copolymer for surface modification of Ethylene-Norbornene copolymers
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Versatile electrochemical sensor for tissue culturing and sample handling
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Versatile electrochemical sensor for cell culturing
Publication: Research - peer-review › Poster – Annual report year: 2014
Centrifugal microfluidic platform with real-time electrochemical detection
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2013

Combined Cell Culture-Biosensing Platform Using Vertically Aligned Patterned Peptide Nanofibers for Cellular Studies
Publication: Research - peer-review › Journal article – Annual report year: 2013

Computational and experimental studies of the interaction between single-walled carbon nanotubes and folic acid
Publication: Research - peer-review › Journal article – Annual report year: 2013

Culturing of PC12 Cells, Neuronal Cells, Astrocytes Cultures and Brain Slices in an Open Microfluidic System
Al Atraktchi, F. A-Z., Bakmand, T., Rømer Sørensen, A. & Svendsen, W. E. 2013
Publication: Research - peer-review › Poster – Annual report year: 2013

Detection of cancer cells using a peptide nanotube-folic acid modified graphene electrode
Publication: Research - peer-review › Journal article – Annual report year: 2012

Dielectrophoretic manipulation and solubility of protein nanofibrils formed from crude crystallins
Publication: Research - peer-review › Journal article – Annual report year: 2013

DNA hybridization sensing for cytogenetic analysis
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Doped Overoxidized Polypyrrole Microelectrodes as Sensors for the Detection of Dopamine Released from Cell Populations
Publication: Research - peer-review › Journal article – Annual report year: 2013

Exploring the properties and possibilities of self-assembling
Publication: Research › Ph.D. thesis – Annual report year: 2013

Fabrication and characterization of PEDOT nanowires based on self-assembled peptide nanotube lithography
Publication: Research - peer-review › Journal article – Annual report year: 2013

Microfluidic System for Long Term Culturing and Monitoring of Organotypic Brain Tissue and Cells
Publication: Research - peer-review › Poster – Annual report year: 2014
Compact potentiostat for cellular electrochemical imaging with 54 parallel channels


Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Designing Polymeric Microfluidic Platforms for Biomedical Applications


Publication: Research › Ph.D. thesis – Annual report year: 2012

Diphenylalanine: a short molecule with a big impact


Publication: Research › Journal article – Annual report year: 2012

Electrochemical evaluation of dopamine detection on pyrolysed carbon and gold electrodes


Publication: Research - peer-review › Poster – Annual report year: 2013

Fabrication of 3D nano/microelectrodes via two-photon-polymerization


Publication: Research - peer-review › Journal article – Annual report year: 2012

Label Free Chromosome Translocation Detection with Silicon nanowires


Publication: Research - peer-review › Poster – Annual report year: 2012

Lab-on-Chip Silicon nanowire biosensors, for biomedical applications


Publication: Research - peer-review › Poster – Annual report year: 2012

Lab-on-Chip Silicon nanowire biosensors, for biomedical applications


Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Manipulation of self-assembled peptide nanostructures


Publication: Research - peer-review › Book chapter – Annual report year: 2012

Micro device for multiple disease diagnostic and monitoring


Publication: Research - peer-review › Poster – Annual report year: 2012

Microfluidic System for Long Term Culturing of Organotypic Brain Tissue


Publication: Research - peer-review › Poster – Annual report year: 2012

Microfluidic System for Long Term Culturing of Organotypic Brain Tissue


Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012
Microfluidic System With Capillary Burst Valves For Detection Of Chromosomal Translocations
Publication: Research - peer-review › Poster – Annual report year: 2012

Microtechnologies Enable Cytogenetics
Publication: Research - peer-review › Book chapter – Annual report year: 2013

Monitoring the functionalization of single-walled carbon nanotubes with chitosan and folic acid by two-dimensional diffusion-ordered nmr spectroscopy
Publication: Research - peer-review › Journal article – Annual report year: 2012

Monitoring The Functionalization Of Single Walled Carbon Nanotubes With Chitosan And Folic Acid By Two Dimensional Diffusion Ordered NMR Spectroscopy
Publication: Research - peer-review › Poster – Annual report year: 2012

Novel 3D microelectrodes and pipettes by wet and dry etching
Publication: Research - peer-review › Journal article – Annual report year: 2012

Novel Materials for Cellular Nanosensors
Publication: Research › Ph.D. thesis – Annual report year: 2012

On-chip cell viability studies using label-free impedance detection
Publication: Research - peer-review › Poster – Annual report year: 2012

Self-assembled diphenylalanine nanowires for cellular studies and sensor applications.
Publication: Research - peer-review › Journal article – Annual report year: 2012

Self-assembled Peptide and Protein Nanostructures in Diagnosis
Publication: Research - peer-review › Book chapter – Annual report year: 2012

Self-assembled peptide nanoparticles: Stiffer than steel?
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Vertically aligned patterned peptide nanowires for cellular studies
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Evoluting microfluidics: Moving towards clinical applications
Three-dimensional electrode array for brain slice culture

A device for extraction, manipulation and stretching of DNA from single human chromosomes

Chip connector
Shah, P. J. & Svendsen, W. E. 2011

Development of an Electrochemical Metal-Ion Biosensor Using Self-Assembled Peptide Nanofibrils

Dielectrophoretic manipulation of human chromosomes in microfluidic channels: extracting chromosome dielectric properties

Diphenylalanine peptide nanowires for sensing applications

Dynamic in situ chromosome immobilisation and DNA extraction using localized poly(N-isopropylacrylamide) phase transition

Electrostatic Force Microscopy of Self Assembled Peptide Structures

FISHprep: A Novel Integrated Device for Metaphase FISH Sample Preparation

High-yield production of hydrophobins RodA and RodB from Aspergillus fumigatus in Pichia pastoris

Interfacing Biological Material with Micro- and Nanodevices
Long-term brain slice culturing in a microfluidic platform
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Low Cost and Fast Clean Room Fabrication Techniques using Peptide Nanotubes
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Micro and nano-platforms for biological cell analysis
Publication: Research - peer-review › Journal article – Annual report year: 2011

Micro and Nano Techniques for the Handling of Biological Samples
Publication: Research - peer-review › Book – Annual report year: 2011

Micro-“factory” for self-assembled peptide nanostructures
Publication: Research - peer-review › Conference article – Annual report year: 2011

Microfluidic bioreactors for culture of non-adherent cells
Publication: Research - peer-review › Journal article – Annual report year: 2011

Microfluidic device as a novel cell transmigration assay
Publication: Research › Conference abstract for conference – Annual report year: 2011

Microfluidic device to study cell transmigration under physiological shear stress conditions
Publication: Research - peer-review › Journal article – Annual report year: 2011

Microsystem for label-free detection of chromosomal translocations
Publication: Research › Conference abstract for conference – Annual report year: 2011

Multiplexed analyte concentration measurement
Svendsen, W. E., Sørensen, M. H., Christiansen, K. A. & Shah, P. J. 2011
Publication: Research › Patent – Annual report year: 2011

Novel electrochemical microfluidic device for drug partitioning studies at the interface between two immiscible electrolyte solutions
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Real-time monitoring of cellular dynamics using a microfluidic cell culture system with integrated electrode array and potentiostat
Scalloped electrodes for highly sensitive electrical measurements
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Self-assembled peptide nanostructures for biomedical applications: advantages and challenges
Publication: Research - peer-review › Book chapter – Annual report year: 2011

Self-assembled peptide nanotubes as an etching material for the rapid fabrication of silicon wires
Publication: Research - peer-review › Journal article – Annual report year: 2011

Self-Assembled Peptide Nanowires as a Multifunctional Platform for Cellular Studies
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Silicon Nanowire as Virus Sensor in a Total Analysis System
Publication: Research - peer-review › Conference article – Annual report year: 2011

Stability of diphenylalanine peptide nanotubes under liquid conditions
Publication: Research - peer-review › Journal article – Annual report year: 2011

Use of self-assembled peptide nanostructures for the fabrication of silicon nanowires
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Isolation of human leukocytes and their chromosomes (part of the total chromosomal analysis system)
Publication: Research › Ph.D. thesis – Annual report year: 2010

Biological and non-biological nanostructures for biomedical applications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Conductance investigation of self organizing biological nanotube structures: On the way towards a peptide based BIOFET
Andersen, K. B., Castillo, J. & Svendsen, W. E. 2010
Publication: Research - peer-review › Poster – Annual report year: 2010

Conducting polymer 3D microelectrodes
Publication: Research - peer-review › Journal article – Annual report year: 2010

Controlled growth of peptide micro/nanostructures inside a microfluidic chip.
Publication: Research - peer-review › Poster – Annual report year: 2010

Controlled synthesis and manipulation of self-assembled peptide nano spheres by microfluidic dielectrophoresis (DEP)
Diphenylalanine Peptide Nanowires for Sensing Applications
Publication: Research › Sound/Visual production (digital) – Annual report year: 2010

Disposable micro-fluidic biosensor array for online parallelized cell adhesion kinetics analysis on quartz crystal resonators
Cama, G., Jacobs, T., Dimaki, M., Svendsen, W. E., Hauptmann, P. & Naumann, M. 2010 In : Measurement Science and Technology. 21, 8
Publication: Research › peer-review » Journal article – Annual report year: 2010

Fabrication and Characterization of 3D Micro- and Nanoelectrodes for Neuron Recordings
Publication: Research › peer-review » Journal article – Annual report year: 2010

Fabrication of polymer microcantilevers by nanoimprint lithography
Publication: Research › Ph.D. thesis – Annual report year: 2011

Improved anti-stiction coating of SU-8 molds
Publication: Research › peer-review » Journal article – Annual report year: 2010

Metaphase FISH on a Chip: Miniaturized Microfluidic Device for Fluorescence in situ Hybridization
Publication: Research › peer-review » Journal article – Annual report year: 2010

Micro and nanoplatforms for biological cell analysis
Publication: Research › peer-review » Conference article – Annual report year: 2010

Peptide-based nanosensors
Publication: Research › peer-review » Poster – Annual report year: 2010

Peptide nanowires/conductive polymer biosensing
Publication: Research › peer-review » Article in proceedings – Annual report year: 2010

Peptide self-assembled nanostructures: advances and challenges for their use in nanobiotechnology applications
Publication: Research › peer-review » Article in proceedings – Annual report year: 2010

Scanning probe microscopy characterization of peptide structures
Clausen, C. H., Castillo, J., Christiansen, N. O. & Svendsen, W. E. 2010
Publication: Research › peer-review » Poster – Annual report year: 2010

Self-assembled peptide nanofibers for the development of electrochemical biosensors
Castillo, J., Zor, K., Kasotakis, E., Nistor, M., Anna, M. & Svendsen, W. E. 2010
Publication: Research › peer-review » Poster – Annual report year: 2010
Superparamagnetic bead interactions with functionalized surfaces characterized by an immunomicroarray
Publication: Research - peer-review › Journal article – Annual report year: 2010

The influence of refractive index change and initial bending of cantilevers on the optical lever readout method
Publication: Research - peer-review › Journal article – Annual report year: 2010

A generalized theoretical model for "continuous particle separation in a microchannel having asymmetrically arranged multiple branches"
Andersen, K. B., Levinsen, S., Svendsen, W. E. & Okkels, F. 2009 In : Lab on a Chip. 9, 11, p. 1638-1639
Publication: Research - peer-review › Journal article – Annual report year: 2009

An integrated microfluidic system to isolate leukocytes from whole blood
Publication: Research - peer-review › Poster – Annual report year: 2009

A novel passive microfluidic device for preprocessing whole blood for point of care diagnostics
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Biological Nanotubes as vectors for the localized delivery of medicines
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Controlled manipulation and immobilization of self-assembled nano spheres by dielectrophoresis
Castillo, J., Christensen, N. & Svendsen, W. E. 2009
Publication: Research - peer-review › Poster – Annual report year: 2009

Digging deep with microtools
Publication: Research - peer-review › Journal article – Annual report year: 2009

Easy and Inexpensive Fabrication of a Nanofluidic Channel with a Build in Valve Mechanism using a Biological Nanotube
Publication: Research - peer-review › Poster – Annual report year: 2009

Fabrication and integration of 3D nanoelectodes into microfluidics for cell studies
Publication: Research - peer-review › Poster – Annual report year: 2009

Fabrication and manipulation of biological self-assembled nanotubes and nanospheres for bionanotechnology applications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Fabrication: Manipulation and integration of biological nanotubes and nano spheres for the development of biosensing devices
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009
Manipulation of biological samples using micro and nano techniques
Publication: Research - peer-review › Journal article – Annual report year: 2009

Metallization of high aspect ratio, out of plane structures
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Novel Integrated Lab-on-Chip System for Chromosome Translocations Analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Phototoxic effect of functionalized biological nanotubes on cells infected with Leishmaniasis
Publication: Research - peer-review › Poster – Annual report year: 2009

Three dimensional electrochemical system for neurobiological studies
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

A Microfabricated Platform for Chromosome Separation and Analysis
Publication: Research › Conference article – Annual report year: 2008

A Microfluidic Lyser to Extract Blood Cells
Publication: Research - peer-review › Poster – Annual report year: 2008

Comsol Multiphysics Simulations of Microfluidic Systems for Biomedical Applications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Fabrication of Rocket Tip 3D Nanoelectrodes for Neuron Metabolic Studies
Publication: Research - peer-review › Poster – Annual report year: 2008

FISH (Flurescent in Situ Hybridisation) on Chip
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008
FISH (Fluorescent in Situ Hybridisation) on Chip
Publication: Research - peer-review › Poster – Annual report year: 2008

FISH on Polymer
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

FISH on Polymer
Publication: Research - peer-review › Poster – Annual report year: 2008

Individual Addressable 3D Nanoelectrodes for Neural Metabolic Studies
Publication: Research - peer-review › Poster – Annual report year: 2008

Manipulation and integration of biological nanofibers with electronic micro structures for the development of biosensing devices
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Manipulation of self-assembly amyloid peptide nanotubes by dielectrophoresis (DEP)
Publication: Research - peer-review › Journal article – Annual report year: 2008

Physical Properties of Polypeptides Tubes
Publication: Research - peer-review › Poster – Annual report year: 2008

Qualitative Mapping of Structural Different Polypeptide Nanotubes
Publication: Research - peer-review › Poster – Annual report year: 2008

Qualitative Mapping of Structural Different Polypeptide Nanotubes
Publication: Research - peer-review › Poster – Annual report year: 2008

Qualitative Mapping of Structural Different Polypeptide Nanotubes
Publication: Research - peer-review › Journal article – Annual report year: 2008

Scanning conductance microscopy investigations on fixed human chromosomes
Publication: Research - peer-review › Journal article – Annual report year: 2008
Self-assembly Peptide Nanofibres as Electrochemical Biosensing Elements
Castillo, J. & Svendsen, W. E. 2008 Proceeding of "The Tenth World Congress on Biosensors". Elsevier
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Spatially Optimized Mixers to Enhance Mixing of Whole Blood with Water to Lyse Red Blood Cells
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Spatially Optimized Mixers to Enhance Mixing of Whole Blood with Water to Lyse Red Blood Cells
Publication: Research - peer-review › Poster – Annual report year: 2008

Three-dimensional Electrodes for the study of Neurotransmitters in a Microfluidic System
Publication: Research - peer-review › Poster – Annual report year: 2008

Three-dimensional Electrodes for the study of Neurotransmitters in a Microfluidic System
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

A Microfluidic Chip for Sorting of Chromosomes
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2007

Amyloid peptide nanowires separation and manipulation using dielectrophoresis and microfluidics. Protein Assembly
Publication: Research - peer-review › Poster – Annual report year: 2007

BeNatural. Bioengineered Nanomaterials for Research and Applications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Biolithographic Patterning of Antibodies to Capture Human Chromosomes
Publication: Research - peer-review › Poster – Annual report year: 2007

Chromosome Total Analysis System
Publication: Research - peer-review › Poster – Annual report year: 2007

C-TAS: A lab-on-a-chip system for the analysis of chromosomal translocations
Publication: Research - peer-review › Poster – Annual report year: 2007

C-TAS: A lab-on-a-chip system for the analysis of chromosomal translocations
Publication: Research - peer-review › Poster – Annual report year: 2007

C-TAS: A lab-on-a-chip system for the analysis of chromosomal translocations
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2007
Design, fabrication and testing of a novel MEMS resonator for mass sensing applications
Publication: Research - peer-review › Journal article – Annual report year: 2007

Fabrication of polymeric microstructures to capture chromosomes on monolayer of antibodies
Publication: Research - peer-review › Journal article – Annual report year: 2007

Introduktion til mikro og Nanoteknologi
Svendsen, W. E. 2007
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2007

Manipulation of amyloid peptide nanowires using dielectrophoresis and microfluidics
Publication: Research - peer-review › Poster – Annual report year: 2007

Manipulation of peptide nanotubes by dielectrophoresis (DEP)*
Publication: Research - peer-review › Poster – Annual report year: 2007

Mass and position determination of attached particles on cantilever based mass sensors
Publication: Research - peer-review › Journal article – Annual report year: 2007

Miniaturliseret fuldautomatisk kromosomanalys
Svendsen, W. E. 2007
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2007

Scanning Conductance Microscopy of Biological Materials
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2007

Scanning Conductance Microscopy of Chromosomes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Separation of white blood cells from a whole blood sample using pinched flow
Publication: Research - peer-review › Poster – Annual report year: 2007

Separation of white blood cells from a whole blood sample using pinched flow
Publication: Research - peer-review › Poster – Annual report year: 2007

Temperature response of carbon nanotube networks
Publication: Research - peer-review › Journal article – Annual report year: 2007

Totalanalyse-systemer med biologiske anvendelser
Svendsen, W. E. & Dimaki, M. 2007 In : Kvant. 1
Uncovering cells by microtechnology
Publication: Research - peer-review › Journal article – Annual report year: 2007

Carbon nanotube sensors
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Characterisation Of Mechanical Sensors Using A Custom Built Charcterisation System
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2006

Chromosomel Total Analysis System
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2006

Chromosome Total Analysis System
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2006

Nano and micro-cantilever sensors – new materials and new read-out principles
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Nano-mechanical resonators for mass sensing applications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Characterization of the Resonant Properties of Multi-layer Cantilever Sensors
Publication: Research › Ph.D. thesis – Annual report year: 2005

Annealing and deposition effects of the chemical composition of silicon rich nitride
Publication: Research - peer-review › Journal article – Annual report year: 2005

Cell Total Analysis System
Publication: Research › Poster – Annual report year: 2005

Characterization system for resonant micro- and nanocantilevers
Publication: Research - peer-review › Journal article – Annual report year: 2005
Cromosome Total Analysis System
Publication: Research › Poster – Annual report year: 2005

Effect of gold coating on the Q-factor of resonant cantilevers
Publication: Research - peer-review › Journal article – Annual report year: 2005

Enhanced functionality of cantilever based mass sensors using higher modes
Publication: Research - peer-review › Journal article – Annual report year: 2005

Enhanced functionality of cantilever based mass sensors using higher modes and functionalized particles
Publication: Research - peer-review › Article in proceedings – Annual report year: 2006

Enhanced sensitivity of gold coated resonant microcantilever at atmospheric pressure
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Fully integrated nanoresonator system with attogram/hz mass resolution
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Gender balance in Physics in Denmark- does the equation add up ?
Publication: Research › Article in proceedings – Annual report year: 2005

Getting equity back on the agenda
Publication: Research › Article in proceedings – Annual report year: 2005

Mass Sensitivity of Cantilever Based Mass Sensors as a Function of Mass-Position
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Material and optical properties of silicon rich nitride
Andersen, K. N., Svendsen, W. E., Stimpel-Lindner, T., Sulima, T., Philipp, H. & Baumgärtner, H. 2005
Publication: Research › Poster – Annual report year: 2005

Nanocantilever Sensitivity Degradation From Bimorph Effects
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Nano Environment Monitoring Unit for Space Applications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2005

Photolithographic micro-dissection
Temperature and pressure dependence of resonance in multi-layer microcantilevers

Ultrasensitive mass sensor fully integrated with complementary metal-oxide-semiconductor circuitry

Amorphous silicon rich silicon nitride optical waveguides for high density integrated optics

Annealing and deposition effects on the chemical composition of silicon rich nitride

Temperature dependence of surface stress in nanocantilever mass detectors

Advances in silica-based integrated optics

Measurement of optical nonlinearity in silicon rich nitride waveguide ring resonators
Silicon rich nitride micro-resonators
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Silicon Rich Nitride Micro-resonators for optical filters
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2003

Spin-exchange and spin-destruction rates for the He-3-Na system
Publication: Research - peer-review › Journal article – Annual report year: 2003

Changes in density fluctuations associated with confinement transitions close to a rational edge rotational transform in the W7-AS stellarator
Publication: Research - peer-review › Journal article – Annual report year: 2002

High index ring resonator coupled to UV-written waveguide
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Optical loss analysis of silicon rich nitride waveguides
Mertens, H., Andersen, K. N. & Svendsen, W. E. 2002
Publication: Research › Poster – Annual report year: 2002

Optical loss analysis of silicon rich nitride waveguides
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Optical loss analysis of silicon rich nitride waveguides and their applications
Mertens, H., Svendsen, W. E., Andersen, K. N. & Philipp, H. 2002
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2002

Silicon rich nitride thin films and waveguides
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Silicon rich nitride thin films and waveguides
Andersen, K. N., Nielsen, P. C., Philipp, H. T., Svendsen, W. E. & Mertens, H. 2002
Publication: Research - peer-review › Paper – Annual report year: 2002

A CO2 laser based two-volume collective scattering instrument for spatially localized turbulence measurements
Publication: Research - peer-review › Journal article – Annual report year: 2001

Hyperpolarization of 3He by spin-exchange with light alkalis
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2001
Silicon Rich Nitride and components
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2001

Investigation of spin exchange processes in noble gases using Na, K, Rb and CS
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 1999

Medical/biological studies with hyperpolarized noble gases
Svendsen, W. E. 1999
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 1999

MRI scanning with hyperpolarized gases
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 1999

Relationship between confinement and core plasma fluctuations in the W7-AS Stellarator
Publication: Research - peer-review › Article in proceedings – Annual report year: 1999

Two point correlation measurements of density fluctuations in the w7-AS stellarator
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 1999

Angular distributions of emitted particles by laser ablation of silver at 355 nm
Publication: Research - peer-review › Journal article – Annual report year: 1998

Hyperpolarized gases for MRI scanning
Svendsen, W. E. 1998
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 1998

Small angle collective scattering correlation measurements at W7-AS
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

Sputtering of Surfaces of the Solid Hydrogens
Publication: Research - peer-review › Conference article – Annual report year: 1998

Angular distributions and total yield of laser ablated silver
Publication: Research - peer-review › Journal article – Annual report year: 1997

Electronic sputtering of quantum solids: Solid Deuterium bombarded by keV electrons
Publication: Research › Conference abstract for conference – Annual report year: 1997

Målinger af tæthedsfluktuationer i et fusions plasma
Measurement of density fluctuations in a fusion plasma using CO2 laser scattering.

Ablation from metals induced by visible and UV laser irradiation

Angular resolved ablation from silver induced by intense UV laser irradiation

Charged particle and laser irradiation of selected materials
Svendsen, W. E. 1996

Laser ablation deposition measurements from silver and nickel

Ablation from metals induced by visible and UV laser irradiation

Sputtering of thin and intermediate thick films of solid deuterium by keV electrons

Sputtering of Thick Deuterium Films by KeV Electrons

Statistics and characteristics of xuv transition arrays from laser-produced plasmas of the elements tin through iodine

Projects:

Portable Diagnostic Laboratory to Diagnose Thyroid Gland Related Disorders
01/07/2017 → 30/06/2020
Project: PhD

Novel methods for detection of contaminants in the environment
01/09/2016 → 31/08/2019
Project: PhD

Optical detection of Non-viable cells
Micro- and nano-sensors for early diagnosis of bacterial infections
15/10/2013 → 02/12/2017
Project: PhD

Lab-on-chip system for virus detection in water
01/10/2013 → 11/01/2017
Project: PhD

Evolvable Smartphone-based Point-of-Care Systems for In-Vitro Diagnostics
01/02/2013 → 02/11/2016
Project: PhD

Micro Fluidic System for Tissue Culturing and Live Monitoring of Analytes
01/10/2012 → 11/01/2017
Project: PhD

Investigations of drug transport phenomena through cell layers using lab-o-a-chip technologies
01/09/2012 → 30/09/2016
Project: PhD

Microfluidic integration of different nanowires and nanotubes for NanoBioFETs
01/04/2012 → 16/03/2016
Project: PhD

Novel Diagnostic methods and devices for personalized treatment of cancer
01/01/2012 → 18/09/2015
Project: PhD

Application of Microsystems and nanotechnology in the cytogenetic diagnosis of haematological malignancies
01/09/2010 → 11/12/2013
Project: PhD

Metagenomic and nano-chip-based analysis of foodborne pathogens
Wangari, R., Hoorfar, J., Christensen, L. S., Josefsen, M. H. & Svendsen, W. E.
01/07/2010 → 17/12/2010
Project: PhD

Micro-scale temperature sensors for calorimetry and cantilever based sensing
Larsen, T., Boisen, A., Schmid, S., Svendsen, W. E., Finot, E. & Thundat, T. G.
01/10/2009 → 18/12/2012
Project: PhD

Exploring the properties and possibilities of self-organizing nanotubes and nanoparticles for nano-bio sensors
Andersen, K. B., Svendsen, W. E., Castillo, J., Hansen, O., Merkoçi, A. & Mitraki, A.
Integrated platform for studying cellular dynamics using 3D Nanosensors
01/06/2009 → 20/09/2012
Project: PhD

Designing a Polymeric Microfluidic Platform for Neuronal Cell culture
15/07/2008 → 22/03/2012
Project: PhD

On-Chip Electrogenic Cell handling and analysis
01/11/2007 → 25/05/2011
Project: PhD

3D nanolithography for self-aligned nano- and microstructures
01/02/2007 → 22/09/2010
Project: PhD

Microfluidic system for chromosome analysis system
Shah, P. J., Svendsen, W. E., Dimaki, M., Okkels, F., Almdal, K., Becker, H. & Geschke, O.
15/01/2007 → 24/08/2011
Project: PhD

Integrated sorting of chromosomes
01/11/2006 → 16/06/2010
Project: PhD

Isolation of human leukocytes and their chromosomes (part of the total chromosomal analysis system)
01/11/2006 → 26/05/2010
Project: PhD

Optiske bistabilitet i integreret optik
Sandberg, R. K., Boisen, A., Svendsen, W. E., Hansen, O., Berger, R. & Gomez, M.
01/09/2001 → 29/08/2005
Project: PhD

Activities:

Talk about "Nano-needles in medical diagnostics, monitoring and treatment, a look ahead" presented at IDEAS 10 YEARS
Svendsen, W. E. (Speaker)
11 Mar 2010
Activity: Talks and presentations › Conference presentations

Talk about "Manipulation of Biological Self-assembled nano tubes and nano spheres for bionanotechnology applications"
Presented at 1st Nano Today Conference
Svendsen, W. E. (Speaker)
3 Aug 2009 → 5 Aug 2009
Activity: Talks and presentations › Conference presentations
Individual addressable 3D nanoelectrodes for neural metabolic studies, NanoToday, Singapore 2009
Svendsen, W. E. (Speaker)
2 Aug 2009 → 5 Aug 2009
Activity: Talks and presentations › Conference presentations

Talk about "Controlled Synthesis of peptide Nano Spheres in a microfluidic device" at NanoBio Europe 2009, Grenoble, France
Svendsen, W. E. (Speaker)
16 Jun 2009 → 18 Jun 2009
Activity: Talks and presentations › Conference presentations

Comsol Conference 2008
Svendsen, W. E. (Participant)
4 Nov 2008 → 6 Nov 2008
Activity: Attending an event › Participating in or organising a conference

34th International Conference on Micro and Nano Engineering
Svendsen, W. E. (Participant)
14 Sep 2008 → 18 Sep 2008
Activity: Attending an event › Participating in or organising a conference

Danish Physical Society Annual Meeting 2008
Svendsen, W. E. (Participant)
17 Jun 2008 → 18 Jun 2008
Activity: Attending an event › Participating in or organising a conference

The Tenth World Congress on Biosensors
Svendsen, W. E. (Participant)
14 May 2008 → 16 May 2008
Activity: Attending an event › Participating in or organising a conference

Talk about "Self-assembly peptide Nanofibers as Electrochemical Biosensing Elements" presented at "The tenth World Congress on Biosensors.
Svendsen, W. E. (Speaker)
1 Jan 2008 → …
Activity: Talks and presentations › Conference presentations