Anne S. Meyer - DTU Orbit (04/03/2018)

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Publications:

**Compared leaf anatomy and water relations of commercial and traditional Prunus dulcis (Mill.) cultivars under rain-fed conditions**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Low energy recycling of ionic liquids via freeze crystallization during cellulose spinning**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Membrane separation of enzyme-converted biomass compounds: Recovery of xylose and production of gluconic acid as a value-added product**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Morphological, mechanical and antioxidant properties of Portuguese almond cultivars**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**Substrate specificity and transfucosylation activity of GH29 α-l-fucosidases for enzymatic production of human milk oligosaccharides**
Publication: Research - peer-review › Journal article – Annual report year: 2018

**A comparative study on the activity of fungal lytic polysaccharide monooxygenases for the depolymerization of cellulose in soybean spent flakes**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**A New Functional Classification of Glucuronoyl Esterases by Peptide Pattern Recognition**
Publication: Research - peer-review › Encyclopedia chapter – Annual report year: 2017

**Biocatalysis**
Publication: Research - peer-review › Encyclopedia chapter – Annual report year: 2017

**Characterisation of Authentic Lignin Biorefinery Samples by Fourier Transform Infrared Spectroscopy and Determination of the Chemical Formula for Lignin**
Publication: Research - peer-review › Journal article – Annual report year: 2017

**Characterization and immobilization of engineered sialidases from *Trypanosoma rangeli* for transsialylation**
Publication: Research - peer-review › Journal article – Annual report year: 2017
Characterization of alginates from Ghanaian brown seaweeds: Sargassum spp. and Padina spp
Publication: Research - peer-review › Journal article – Annual report year: 2017

Characterization of two novel bacterial type A exo-chitobiose hydrolases having C-terminal 5/12-type carbohydrate-binding modules
Publication: Research - peer-review › Journal article – Annual report year: 2017

Comparison of traditional field retting and Phlebia radiata Cel 26 retting of hemp fibres for fibre-reinforced composites
Publication: Research - peer-review › Journal article – Annual report year: 2017

Compositional variations of brown seaweeds Laminaria digitata and Saccharina latissima in Danish waters
Publication: Research - peer-review › Journal article – Annual report year: 2017

Crude fucoidan content in two North Atlantic kelp species, Saccharina latissima and Laminaria digitata - seasonal variation and impact of environmental factors
Publication: Research - peer-review › Journal article – Annual report year: 2017

Design of Trypanosoma rangeli sialidase mutants with improved trans-sialidase activity
Publication: Research - peer-review › Journal article – Annual report year: 2017

Direct rate assessment of laccase catalysed radical formation in lignin by electron paramagnetic resonance spectroscopy
Publication: Research - peer-review › Journal article – Annual report year: 2017

Elemental analysis of various biomass solid fractions in biorefineries by X-ray fluorescence spectrometry
Publication: Research - peer-review › Journal article – Annual report year: 2017

Enzymatic conversion of CO2 to CH3OH via reverse dehydrogenase cascade biocatalysis: Quantitative comparison of efficiencies of immobilized enzyme systems
Publication: Research - peer-review › Review – Annual report year: 2017

Enzymatic production of wheat and ryegrass derived xylooligosaccharides and evaluation of their in vitro effect on pig gut microbiota
Publication: Research - peer-review › Journal article – Annual report year: 2017

Enzyme discovery for tuber processing pulps
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Freezing Point Determination of Water–Ionic Liquid Mixtures
Publication: Research - peer-review › Journal article – Annual report year: 2017

Functional hydrocolloids from seaweeds
Publication: Research - peer-review › Review – Annual report year: 2017

High-performance removal of acids and furans from wheat straw pretreatment liquid by diananofiltration
Publication: Research - peer-review › Journal article – Annual report year: 2017

Homology to peptide pattern for annotation of carbohydrate-active enzymes and prediction of function
Publication: Research - peer-review › Journal article – Annual report year: 2017

Impact of the fouling mechanism on enzymatic depolymerization of xylan in different configurations of membrane reactors
Publication: Research - peer-review › Journal article – Annual report year: 2017
Kinetics based reaction optimization of enzyme catalysed reduction of formaldehyde to methanol with synchronous cofactor regeneration
Publication: Research - peer-review › Journal article – Annual report year: 2017

Laccase catalyzed grafting of N-OH type mediators to lignin via radical-radical coupling
Publication: Research - peer-review › Journal article – Annual report year: 2017

Municipal Solid Waste Management in a Low Income Economy Through Biogas and Bioethanol Production
Publication: Research - peer-review › Journal article – Annual report year: 2016

New degradation compounds from lignocellulosic biomass pretreatment: routes for formation of potent oligophenolic enzyme inhibitors
Publication: Research - peer-review › Journal article – Annual report year: 2016

New pentose dimers with bicyclic moieties from pretreated biomass
Publication: Research - peer-review › Journal article – Annual report year: 2017

Oxidation of lignin in hemp fibres by laccase: effects on mechanical properties of hemp fibres and unidirectional fibre/epoxy composites
Publication: Research - peer-review › Journal article – Annual report year: 2017

Oxidative cleavage and hydrolytic boosting of cellulose in soybean spent flakes by Trichoderma reesei Cel61A lytic polysaccharide monooxygenase
Publication: Research - peer-review › Journal article – Annual report year: 2017

Prebiotic potential of pectin and pectic oligosaccharides to promote anti-inflammatory commensal bacteria in the human colon
Publication: Research - peer-review › Journal article – Annual report year: 2017

Prediction of Pectin Yield and Quality by FTIR and Carbohydrate Microarray Analysis
Publication: Research - peer-review › Journal article – Annual report year: 2016

Pre-process desilication of wheat straw with citrate
Publication: Research - peer-review › Journal article – Annual report year: 2017

Rheological properties of agar and carrageenan from Ghanaian red seaweeds
Publication: Research - peer-review › Journal article – Annual report year: 2016

Selection of Bacillus species for targeted in situ release of prebiotic galacto-rhamnogalacturonan from potato pulp in piglets
Publication: Research - peer-review › Journal article – Annual report year: 2017

Separation of xylose and glucose using an integrated membrane system for enzymatic cofactor regeneration and downstream purification
Publication: Research - peer-review › Journal article – Annual report year: 2016

Significance of membrane bioreactor design on the biocatalytic performance of glucose oxidase and catalase: Free vs. immobilized enzyme systems
Publication: Research - peer-review › Journal article – Annual report year: 2016

Structural Characterization and Enzymatic Modification of Soybean Polysaccharides
Publication: Research › Ph.D. thesis – Annual report year: 2017
Surface properties correlate to the digestibility of hydrothermally pretreated lignocellulosic Poaceae biomass feedstocks
Publication: Research - peer-review › Journal article – Annual report year: 2017

Targeted pre-treatment of hemp bast fibres for optimal performance in biocomposite materials: A review
Publication: Research - peer-review › Journal article – Annual report year: 2017

Whole grain-rich diet reduces body weight and systemic low-grade inflammation without inducing major changes of the gut microbiome: a randomised cross-over trial
Publication: Research - peer-review › Journal article – Annual report year: 2017

4-Hydroxybenzoic acid from hydrothermal pretreatment of oil palm empty fruit bunches - Its origin and influence on biomass conversion
Publication: Research - peer-review › Journal article – Annual report year: 2016

An Aspergillus nidulans GH26 endo-β-mannanase with a novel degradation pattern on highly substituted galactomannans
Publication: Research - peer-review › Journal article – Annual report year: 2016

Brown seaweed processing: enzymatic saccharification of Laminaria digitata requires no pre-treatment
Publication: Research - peer-review › Journal article – Annual report year: 2015

Carbohydrate degradation mechanisms and compounds from pretreated biomass
Publication: Research › Ph.D. thesis – Annual report year: 2016

Cathode Assessment for Maximizing Current Generation in Microbial Fuel Cells Utilizing Bioethanol Effluent as Substrate
Publication: Research - peer-review › Journal article – Annual report year: 2016

Combination of ensiling and fungal delignification as effective wheat straw pretreatment
Publication: Research - peer-review › Journal article – Annual report year: 2016

Controlled retting of hemp fibres: Effect of hydrothermal pre-treatment and enzymatic retting on the mechanical properties of unidirectional hemp/epoxy composites
Publication: Research - peer-review › Journal article – Annual report year: 2016

DNA-Based Identification and Chemical Characteristics of Hypnea musciformis from Coastal Sites in Ghana
Publication: Research - peer-review › Journal article – Annual report year: 2016

Effect of pectin and hemicellulose removal from hemp fibers on the mechanical properties of unidirectional hemp fiber/epoxy composites
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Effect of pectin and hemicellulose removal from hemp fibres on the mechanical properties of unidirectional hemp/epoxy composites
Publication: Research - peer-review › Journal article – Annual report year: 2016

Enzyme discovery for fucoidan modification
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Formation of water-soluble soybean polysaccharides from spent flakes by hydrogen peroxide treatment
Publication: Research - peer-review › Journal article – Annual report year: 2016
Impact of different alginate lyases on combined cellulase–lyase saccharification of brown seaweed
Publication: Research - peer-review › Journal article – Annual report year: 2016

Inocula selection in microbial fuel cells based on anodic biofilm abundance of Geobacter sulfurreducens
Publication: Research - peer-review › Journal article – Annual report year: 2016

It All Starts with a Sandwich: Identification of Sialidases with Trans-Glycosylation Activity
Publication: Research - peer-review › Journal article – Annual report year: 2016

Modelling of volumetric composition and mechanical properties of unidirectional hemp/epoxy composites - Effect of enzymatic fibre treatment
Publication: Research - peer-review › Journal article – Annual report year: 2016

Molecular and biochemical characterization of a new thermostable bacterial laccase from Meiothermus ruber DSM 1279
Publication: Research - peer-review › Journal article – Annual report year: 2016

Oxidation of lignin in hemp fibres by laccase: effects on mechanical properties of hemp fibres and unidirectional fibre/epoxy composites
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Phytase application in chewing gum - A technical assessment
Publication: Research - peer-review › Journal article – Annual report year: 2017

Phytase-mediated mineral solubilization from cereals under in vitrogastric conditions: Phytase-mediated mineral release
Publication: Research - peer-review › Journal article – Annual report year: 2015

Phytases for improved iron absorption
Publication: Research - peer-review › Journal article – Annual report year: 2016

Predictive screening of ionic liquids for dissolving cellulose and experimental verification
Publication: Research - peer-review › Journal article – Annual report year: 2016

Pretreatment of hemp fibers for utilization in strong biocomposite materials
Publication: Research › Ph.D. thesis – Annual report year: 2016

Quantitative enzymatic production of sialylated galactooligosaccharides with an engineered sialidase from Trypanosoma rangeli
Publication: Research - peer-review › Journal article – Annual report year: 2015

Rhamnogalacturonan I modifying enzymes: an update
Publication: Research - peer-review › Review – Annual report year: 2015

Sourcing and bioprocessing of brown seaweed for maximizing glucose release
Publication: Research › Ph.D. thesis – Annual report year: 2016

Structure, functionality and tuning up of laccases for lignocellulose and other industrial applications
Publication: Research - peer-review › Review – Annual report year: 2016

Thermostable β-galactosidases for the synthesis of human milk oligosaccharides
Publication: Research - peer-review › Journal article – Annual report year: 2016
Viden er den vigtigste ingrediens
Publication: Commissioned › Report – Annual report year: 2016

Acetate is a superior substrate for microbial fuel cell initiation preceding bioethanol effluent utilization
Publication: Research - peer-review › Journal article – Annual report year: 2015

Backbone structures in human milk oligosaccharides: trans-glycosylation by metagenomic β-N-acetylhexosaminidases
Publication: Research - peer-review › Journal article – Annual report year: 2015

Can laccases catalyze bond cleavage in lignin?
Publication: Research - peer-review › Journal article – Annual report year: 2015

Cascade catalysis in membranes with enzyme immobilization for multienzymatic conversion of CO₂ to methanol
Publication: Research - peer-review › Journal article – Annual report year: 2015

Characterization and biological depectinization of hemp fibers originating from different stem sections
Publication: Research - peer-review › Journal article – Annual report year: 2015

Effect of harvest time and field retting duration on the chemical composition, morphology and mechanical properties of hemp fibers
Publication: Research - peer-review › Journal article – Annual report year: 2015

Fractionation and enzymatic processing of biomass for biorefinery applications
Publication: Research - peer-review › Journal article – Annual report year: 2015

High performance separation of xylose and glucose by enzyme assisted nanofiltration
Publication: Research - peer-review › Journal article – Annual report year: 2015

Implications of silica on biorefineries – interactions with organic material and mineral elements in grasses
Publication: Research - peer-review › Review – Annual report year: 2015

In situ Formation of a Biocatalytic Alginate Membrane by Enhanced Concentration Polarization
Publication: Research - peer-review › Journal article – Annual report year: 2015

In situ prebiotics: enzymatic release of galacto-rhamnogalacturonan from potato pulp in vivo in the gastrointestinal tract of the weaning piglet
Publication: Research - peer-review › Journal article – Annual report year: 2015

In situ prebiotics for weaning piglets: In vitro production and fermentation of potato galactorhamnogalacturonan
Publication: Research - peer-review › Journal article – Annual report year: 2014

Mathematical modelling of membrane separation
Publication: Research › Ph.D. thesis – Annual report year: 2015

Modulating the regioselectivity of a Pasteurella multocida sialyltransferase for biocatalytic production of 3’- and 6’-sialyllactose
Publication: Research - peer-review › Journal article – Annual report year: 2015

Performance of microbial phytases for gastric inositol phosphate degradation
Publication: Research - peer-review › Journal article – Annual report year: 2015
Characterisation of a novel endo-xyloglucanase (XcXGHA) from Xanthomonas that accommodates a xylosyl-substituted glucose at subsite −1
Publication: Research - peer-review › Journal article – Annual report year: 2014

Characterization of an extensin-modifying metalloprotease: N-terminal processing and substrate cleavage pattern of Pectobacterium carotovorum Prt1
Publication: Research - peer-review › Journal article – Annual report year: 2014

Chelating agents improve enzymatic solubilization of pectinaceous co-processing streams
Publication: Research - peer-review › Journal article – Annual report year: 2013

Chemical characterization and hydrothermal pretreatment of Salicornia bigelovii straw for enhanced enzymatic hydrolysis and bioethanol potential
Publication: Research - peer-review › Journal article – Annual report year: 2013

Design of thermostable rhamnogalacturonan lyase mutants from Bacillus licheniformis by combination of targeted single point mutations
Publication: Research - peer-review › Journal article – Annual report year: 2014

Directing filtration to optimize enzyme immobilization in reactive membranes
Publication: Research - peer-review › Journal article – Annual report year: 2014

Engineering aspects of enzymatic fiber solubilization from potato pulp
Publication: Research › Ph.D. thesis – Annual report year: 2015

Engineering of pectinolytic enzymes for enhanced thermostability
Publication: Research › Ph.D. thesis – Annual report year: 2014

Ensiling and hydrothermal pretreatment of grass: Consequences for enzymatic biomass conversion and total monosaccharide yields
Publication: Research - peer-review › Journal article – Annual report year: 2014

Ensiling as pretreatment of grass for lignocellulosic biomass conversion
Publication: Research › Ph.D. thesis – Annual report year: 2014

Enzymatic Cellulose Hydrolysis: Enzyme Reusability and Visualization of beta-Glucosidase Immobilized in Calcium Alginate
Publication: Research - peer-review › Journal article – Annual report year: 2015

Enzymatic production of human milk oligosaccharides
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Enzymatic production of polysaccharides from gum tragacanth
Publication: Research › Patent – Annual report year: 2014

Enzyme catalysed production of sialylated human milk oligosaccharides and galactooligosaccharides by Trypanosoma cruzi trans-sialidase
Publication: Research - peer-review › Journal article – Annual report year: 2014

Enzyme immobilization by fouling in ultrafiltration membranes: Impact of membrane configuration and type on flux behavior and biocatalytic conversion efficacy
Publication: Research - peer-review › Journal article – Annual report year: 2014
Enzyme technology: Key to selective biorefining
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Filtration behavior of casein glycomacropeptide (CGMP) in an enzymatic membrane reactor: fouling control by membrane selection and threshold flux operation
Publication: Research - peer-review › Journal article – Annual report year: 2014

Formation of degradation compounds from lignocellulosic biomass in the biorefinery: sugar reaction mechanisms
Publication: Research - peer-review › Journal article – Annual report year: 2014

Functionalization of a Membrane Sublayer Using Reverse Filtration of Enzymes and Dopamine Coating
Publication: Research - peer-review › Journal article – Annual report year: 2014

Improvement of trans-sialylation versus hydrolysis activity of an engineered sialidase from Trypanosoma rangeli by use of co-solvents.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Mathematical modelling of dextran filtration through hollow fibre membranes
Publication: Research - peer-review › Journal article – Annual report year: 2014

Methodology for quantitative determination of the carbohydrate composition of brown seaweeds (Laminariaceae)
Publication: Research - peer-review › Journal article – Annual report year: 2014

Methods for Improving Enzymatic Trans-glycosylation for Synthesis of Human Milk Oligosaccharide Biomimetics
Publication: Research - peer-review › Journal article – Annual report year: 2014

Optimizing the biocatalytic productivity of an engineered sialidase from Trypanosoma rangeli for 3′-sialyllactose production
Publication: Research - peer-review › Journal article – Annual report year: 2014

Phytases for Improved Iron Absorption
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Predicting optimal back-shock times in ultrafiltration hollow fibre modules through path-lines
Publication: Research - peer-review › Journal article – Annual report year: 2014

Rational Design of a New Trypanosoma rangeli Trans-Sialidase for Efficient Sialylation of Glycans
Publication: Research - peer-review › Journal article – Annual report year: 2014

Reactive membrane technology: Two case studies
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Separation of 3′-sialyllactose and lactose by nanofiltration: A trade-off between charge repulsion and pore swelling induced by high pH
Publication: Research - peer-review › Journal article – Annual report year: 2014

Solvent engineering and other reaction design methods for favouring enzyme-catalysed synthesis
Publication: Research › Ph.D. thesis – Annual report year: 2014

The significance of the initiation process parameters and reactor design for maximizing the efficiency of microbial fuel cells
Publication: Research - peer-review › Journal article – Annual report year: 2014
Enhanced enzymatic cellulose degradation by cellobiohydrolases via product removal
Publication: Research - peer-review › Journal article – Annual report year: 2013

Enhancing RGI lyase thermostability by targeted single point mutations
Publication: Research - peer-review › Journal article – Annual report year: 2013

Ensiling as biological pretreatment of grass (Festulolium Hykor): The effect of composition, dry matter, and inocula on cellulose convertibility
Publication: Research - peer-review › Journal article – Annual report year: 2013

Ensiling of wheat straw decreases the required temperature in hydrothermal pretreatment
Publication: Research - peer-review › Journal article – Annual report year: 2013

Enzymatic depolymerization of gum Tragacanth: Bifidogenic potential of low molecular weight oligosaccharides
Publication: Research - peer-review › Journal article – Annual report year: 2013

Enzymatic lignocellulose hydrolysis: Improved cellulase productivity by insoluble solids recycling.
Publication: Research - peer-review › Journal article – Annual report year: 2013

Enzyme activity measurement via spectral evolution profiling and PARAFAC
Publication: Research - peer-review › Journal article – Annual report year: 2013

Fouling-induced enzyme immobilization for membrane reactors
Publication: Research - peer-review › Journal article – Annual report year: 2013

Fucoidans from brown seaweeds: An update on structures, extraction techniques and use of enzymes as tools for structural elucidation
Publication: Research - peer-review › Journal article – Annual report year: 2014

Hemp fibres: Enzymatic effect of microbial processing on fibre bundle structure
Publication: Research - peer-review › Conference article – Annual report year: 2013

Identification of a laccase from Ganoderma lucidum CBS 229.93 having potential for enhancing cellulase catalyzed lignocellulose degradation
Publication: Research - peer-review › Journal article – Annual report year: 2013

In vitro growth of four individual human gut bacteria on oligosaccharides produced by chemoenzymatic synthesis.
Publication: Research - peer-review › Journal article – Annual report year: 2013

Laccase Enzymology In Relation to Lignocellulose Processing
Publication: Research › Ph.D. thesis – Annual report year: 2013

Mechanisms controlling retention during ultrafiltration of charged saccharides: Molecular conformation and electrostatic forces
Publication: Research - peer-review › Journal article – Annual report year: 2013

Mini Review: Basic Physiology and Factors Influencing Exogenous Enzymes Activity in the Porcine Gastrointestinal Tract
Publication: Research - peer-review › Journal article – Annual report year: 2013

Oxidative enzymatic gelation of sugar beet pectin for emulsion stabilization
Publication: Research - peer-review › Journal article – Annual report year: 2013
Potential of phytase-mediated iron release from cereal-based foods: a quantitative view.
Publication: Research - peer-review › Journal article – Annual report year: 2013

Simultaneous measurement of two enzyme activities using infrared spectroscopy: A comparative evaluation of PARAFAC, TUCKER and N-PLS modelling
Publication: Research - peer-review › Journal article – Annual report year: 2013

Stabilization of emulsions by gum tragacanth (Astragalus spp.) correlates to the galacturonic acid content and methoxylation degree of the gum
Publication: Research - peer-review › Journal article – Annual report year: 2013

Stabilization of oil-in-water emulsions by enzyme catalyzed oxidative gelation of sugar beet pectin
Publication: Research - peer-review › Journal article – Annual report year: 2013

Tragacanth gum: Functionality and prebiotic potential
Publication: Research - peer-review › Journal article – Annual report year: 2013

Tragacanth Gum: Structural Composition, Natural Functionality and Enzymatic Conversion as Source of Potential Prebiotic Activity
Publication: Research › Ph.D. thesis – Annual report year: 2013

A framework for model-based optimization of bioprocesses under uncertainty: Lignocellulosic ethanol production case
Publication: Research - peer-review › Journal article – Annual report year: 2011

Alteration of biomass composition in response to changing substrate particle size and the consequences for enzymatic hydrolysis of corn bran
Publication: Research - peer-review › Journal article – Annual report year: 2012

Biocatalytic cross-linking of pectic polysaccharides for designed food functionality: Structures, mechanisms, and reactions
Publication: Research - peer-review › Journal article – Annual report year: 2012

Bioethanol from lignocellulose - pretreatment, enzyme immobilization and hydrolysis kinetics
Publication: Research › Ph.D. thesis – Annual report year: 2012

Controlling the rejection of protein during membrane filtration by adding selected polyelectrolytes
Publication: Research - peer-review › Journal article – Annual report year: 2012

Designed optimization of a single-step extraction of fucose-containing sulfated polysaccharides from Sargassum sp.
Publication: Research - peer-review › Journal article – Annual report year: 2011

Effect of Charge on Membrane Rejection During Ultrafiltration: Comparison of Dextran and Carboxymethylcellulose (CMC) Solutions
Publication: Research - peer-review › Conference article – Annual report year: 2012

Enzyme catalyzed oxidative cross-linking of feruloylated pectic polysaccharides from sugar beet: Kinetics and rheology
Publication: Research › Ph.D. thesis – Annual report year: 2012

Enzyme catalyzed oxidative gelation of sugar beet pectin: Kinetics and rheology
Publication: Research - peer-review › Journal article – Annual report year: 2012
Enzyme kinetics and identification of the rate-limiting step of enzymatic arabinoxylan degradation
Publication: Research - peer-review › Journal article – Annual report year: 2012

Enzymkatalyseret syntese i ioniske væsker
Publication: Research › Journal article – Annual report year: 2012

Expression and characterization of an endo-1,4-β-galactanase from Emericella nidulans in Pichia pastoris for enzymatic design of potentially prebiotic oligosaccharides from potato galactans
Publication: Research - peer-review › Journal article – Annual report year: 2012

Fucose-containing sulfated polysaccharides from brown seaweed: Extraction technology and bioactivity assessment
Publication: Research › Ph.D. thesis – Annual report year: 2012

In vitro fermentation of sugar beet arabino-oligosaccharides by fecal microbiota obtained from patients with ulcerative colitis to selectively stimulate the growth of Bifidobacterium spp. and Lactobacillus spp.
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

In vitro fermentation of sugar beet arabino-oligosaccharides by fecal microbiota obtained from patients with ulcerative colitis to selectively stimulate the growth of Bifidobacterium spp. and Lactobacillus spp.
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Optimization of reaction parameters for enzymatic glyceride synthesis from fish oil: Ethyl esters versus free fatty acids
Publication: Research - peer-review › Journal article – Annual report year: 2012

Process/reactor selection for multistep biocatalysis.
Publication: Research › Poster – Annual report year: 2012

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

Production of Monascus-like pigments
Publication: Research › Patent – Annual report year: 2012

Rapid near infrared spectroscopy for prediction of enzymatic hydrolysis of corn bran after various pretreatments
Publication: Research - peer-review › Journal article – Annual report year: 2012

Statistical modelling of the interplay between solute shape and rejection in porous membranes
Publication: Research - peer-review › Journal article – Annual report year: 2012

Strategies for Controlling the Rejection of Charged Oligosaccharides During Ultrafiltration: Modification of Molecular Shape, Operational Pressure and Membrane Cutoff
Publication: Research - peer-review › Conference article – Annual report year: 2012

Thermodynamically based solvent design for enzymatic saccharide acylation with hydroxycinnamic acids in non-conventional media
Publication: Research - peer-review › Journal article – Annual report year: 2012

Controlled enzyme catalyzed heteropolysaccharide degradation: Xylans
Publication: Research › Ph.D. thesis – Annual report year: 2011

Enzymatic hydrolysis of corn bran arabinoxylan: - theory versus practice
Publication: Research › Ph.D. thesis – Annual report year: 2011
A continuous membrane microbioreactor system for development of integrated pectin modification and separation processes
Publication: Research - peer-review › Journal article – Annual report year: 2011

Activity and stability of feruloyl esterase A from Aspergillus niger in ionic liquid systems
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Advances in the effective application of membrane technology in the food industry
Publication: Research - peer-review › Book chapter – Annual report year: 2011

A framework for model-based optimization of bioprocesses under uncertainty: Identifying critical parameters and operating variables
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

A framework for model-based optimization of bioprocesses under uncertainty: Identifying critical parameters and operating variables
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011

A Framework for Optimization of Bioprocess Operation under Uncertainties: A lignocellulosic Ethanol Production Case Study
Publication: Research - peer-review › Poster – Annual report year: 2011

A Laboratory Exercise To Understand the Importance of Enzyme Technology in the Fruit-Processing Industry: Viscosity Decrease and Phenols Release from Apple Mash
Publication: Research - peer-review › Journal article – Annual report year: 2011

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Publication: Research - peer-review › Journal article – Annual report year: 2011

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An integral analysis for second generation bioethanol production via a dynamic model-based simulation approach: stochastic nonlinear optimisation
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Definition and characterization of enzymes for maximal biocatalytic solubilization of prebiotic polysaccharides from potato pulp
Publication: Research - peer-review › Journal article – Annual report year: 2011

Dependency of the hydrogen bonding capacity of the solvent anion on the thermal stability of feruloyl esterases in ionic liquid systems
Publication: Research - peer-review › Journal article – Annual report year: 2011

Differential growth response of Ulva lactuca to ammonium and nitrate assimilation
Publication: Research - peer-review › Journal article – Annual report year: 2011

Dynamic Model-Based Evaluation of Process Configurations for Integrated Operation of Hydrolysis and Co-Fermentation for Bioethanol Production from Lignocellulose
Publication: Research - peer-review › Journal article – Annual report year: 2011
Extraction and Bioactivity assessment of Fucoidan from Brown seaweed
Publication: Research › Poster – Annual report year: 2011

Feruloylated and Nonferuloylated Arabino-oligosaccharides from Sugar Beet Pectin Selectively Stimulate the Growth of Bifidobacterium spp. in Human Fecal in Vitro Fermentations
Publication: Research - peer-review › Journal article – Annual report year: 2011

Fucoidan from Sargassum sp. and Fucus vesiculosus reduces cell viability of lung carcinoma and melanoma cells in vitro and activates natural killer cells in mice in vivo
Publication: Research - peer-review › Journal article – Annual report year: 2011

Fucoidan from Sargassum sp. and Fucus vesiculosus reduces cell viability of lung carcinoma and melanoma cells in vitro and activates natural killer cells in mice in vivo
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Publication: Research - peer-review › Journal article – Annual report year: 2012

Publication: Research - peer-review › Journal article – Annual report year: 2011

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

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Rancidity in fish oil enriched foods
Publication: Communication › Journal article – Annual report year: 2001

Content of phenolic acids and ferulic acid dehydrodimers in 17 rye (Secale cereale L.) varieties
Publication: Research - peer-review › Journal article – Annual report year: 2000

Effect of ascorbic acid on iron release from the emulsifier interface and on the oxidative flavor deterioration in fish oil enriched mayonnaise
Publication: Research - peer-review › Journal article – Annual report year: 2000

Enzyme assisted solubilization of beta-glucans from rye bran
Publication: Research - peer-review › Article in proceedings – Annual report year: 2000

Ferulic acid dehydrodimers in rye (Secale cereale L.)
Publication: Research - peer-review › Journal article – Annual report year: 2000

Oxidation in fish-oil-enriched mayonnaise 2: Assessment of the efficacy of different tocopherol antioxidant systems by discriminant partial least squares regression analysis
Publication: Research - peer-review › Journal article – Annual report year: 2000

Oxidation in fish-oil-enriched mayonnaise 3: Assessment of the influence of the emulsion structure on oxidation by discriminant partial least squares regression analysis
Publication: Research - peer-review › Journal article – Annual report year: 2000

The problems of using one-dimensional methods to evaluate multifunctional food and biological antioxidants
Publication: Research - peer-review › Journal article – Annual report year: 2000

Antioxidant activity of hydroxycinnamic acids on human LDL oxidation in vitro
Publication: Research - peer-review › Article in proceedings – Annual report year: 1999

Antioxidant activity of phenolic compounds in grape juice and prune juice on human low-density lipoproteins
Publication: Research - peer-review › Journal article – Annual report year: 1999

Enzymatic hydrolysis of plant material: Kinetics, reactions conditions and substrate effects
Publication: Research › Journal article – Annual report year: 1999

Enzymatic hydrolysis of plant material: Synergism and antagonism among enzymes
Publication: Research › Journal article – Annual report year: 1999

Oxidation in fish-oil-enriched mayonnaise 1: Assessment of propyl gallate as an antioxidant by discriminant partial least squares regression analysis
Publication: Research - peer-review › Journal article – Annual report year: 1999

Oxidation mechanisms in real food emulsions: Oil-water partition coefficients of selected volatile off-flavor compounds in mayonnaise
Publication: Research - peer-review › Journal article – Annual report year: 1999

Partitioning of selected antioxidants in mayonnaise
Publication: Research - peer-review › Journal article – Annual report year: 1999

Plant cell wall degrading enzymes for fruit juice processing
Publication: Research › Journal article – Annual report year: 1999
Release of hydroxycinnamic and hydroxybenzoic acids in rye by commercial plant cell wall degrading enzyme preparations
Publication: Research - peer-review › Journal article – Annual report year: 1999

The architecture of the plant plant wall: Fruits
Publication: Research › Journal article – Annual report year: 1999

Antioxidant activity of berry phenolics on human low-density lipoprotein and liposome oxidation
Publication: Research - peer-review › Journal article – Annual report year: 1998

Antioxidant activity of phenolic compounds in grapes
Publication: Research - peer-review › Article in proceedings – Annual report year: 1998

Antioxidant interactions of catechin, cyanidin, caffeic acid, quercetin, and ellagic acid on human LDL oxidation
Publication: Research - peer-review › Journal article – Annual report year: 1998

Antioxidants in grapes and grape juices and their potential health effects
Publication: Research - peer-review › Journal article – Annual report year: 1998

Commercial grape juices inhibit the in vitro oxidation of human low-density lipoproteins
Publication: Research - peer-review › Journal article – Annual report year: 1998

Enzymatic release of antioxidants for human LDL from grape pomace
Publication: Research - peer-review › Journal article – Annual report year: 1998

Enzymatic release of antioxidants for human low-density lipoprotein from grape pomace
Publication: Research - peer-review › Journal article – Annual report year: 1998

Fruit hydroxycinnamic acids inhibit human LDL oxidation in vitro
Publication: Research - peer-review › Journal article – Annual report year: 1998

Interactions between functional ingredients, antioxidants and off-flavour compounds in mayonnaise with fish oil
Publication: Research › Conference abstract for conference – Annual report year: 1998

Oxidation mechanisms in real food emulsions : Method for separation of mayonnaise by ultracentrifugation
Publication: Research - peer-review › Journal article – Annual report year: 1998

Phenolic composition and antioxidant activity of prunes and prune juice (Prunus domestica)
Publication: Research - peer-review › Journal article – Annual report year: 1998

Antioxidant activity of grape extracts in a lecithin liposome system
Publication: Research - peer-review › Journal article – Annual report year: 1997

Inhibition of low-density lipoprotein oxidation in relation to composition of phenolic antioxidants in grapes
Publication: Research - peer-review › Journal article – Annual report year: 1997

The effect of various food parameters on the activity and stability of catalase from Aspergillus niger and catalase from bovine liver
Publication: Research - peer-review › Journal article – Annual report year: 1997
Fate of the synergistic antioxidant system ascorbic acid, lecithin, and tocopherol in mayonnaise: Partition of ascorbic acid
Publication: Research - peer-review › Journal article – Annual report year: 1996

Oxidoreductases as food antioxidants
Publication: Research - peer-review › Article in proceedings – Annual report year: 1996

Critical Assessment of the Applicability of Superoxide Dismutase As An Antioxidant in Lipid Foods
Publication: Research - peer-review › Journal article – Annual report year: 1994

Methods of Evaluating Food Antioxidants
Publication: Research - peer-review › Journal article – Annual report year: 1994

The Combined Inhibitory Effect of Lysozyme and Low pH on Growth of Listeria Monocytogenes
Publication: Research - peer-review › Journal article – Annual report year: 1994

Inactivation of Copper, Zinc Superoxide Dismutase from Saccharomyces Cerevisiae in Lipid Food Model Systems
Publication: Research - peer-review › Journal article – Annual report year: 1992

Projects:

Discovery and engineering of new enzymes for efficient enzymatic conversion of CO2 to CH2OH
Project: PhD

Homology to peptide pattern for annotation of carbohydrate-active enzymes and prediction of function
Project

Production of alkali from cocoa husk ash and biological extraction of hydrocolloid from Sargassum sp.
Project

Production of alkali from cocoa husk ash for extraction of hydrocolloid from biologically pretreated red seaweed
Project

Systematic enzyme discovery, targeted to fungal and algal biomass
Project: PhD

PhD position in Valorization of Industrial Waste Streams from Tuber Processing - Sino Danish Center (SDC)
Project: PhD

Enzymatic lignin biorefining by cleavage of lignin-carbohydrate complexes
Project: PhD

Energy production from seaweed and seaweed processing residues
Project: PhD

Laccase engineering and reaction analysis
Project: PhD

Fractionation and enzymatic processing of biomass for biorefinery applications
Project: PhD
Study of Fixed Film Fixed Filter AD (4FAD) Biogas System Performance at High Suspende Solids and COD loads
Project: PhD

Cellulase enzymology and production
Project: PhD

Enzyme discovery for seaweed processing
Project: PhD

Research of conductive spinning solution in ionic liquid and enzymatic modification cellulose system
Project: PhD

Seaweed polysaccharides production using enzymes technologies
Project: PhD

New fungal endomannanase diversity for mannan containing subrates in bioenergy
Project: PhD

Integration between enzyme technology and membrane separation in biorefinery processes
Project: PhD

Biooxidation reactor and process design
Project: PhD

Biorefining of hemp seeds: Enzymatic assisted upgrading technology
Project

Chemical Bioreaction Engineering methods for Plant Seed Upgrading: Literature review and introductory experimental work
Project

Lipid oxidation in skin care products
Project: PhD

Developments in enzyme immobilization with downstream renewable energy applications
Project: PhD

Production of prebiotic oligosaccharides by biocatalysis
Project: PhD

Structural characterization and enzymatic modification of soy polysaccharides
Project: PhD

Pretreatment of hemp fibers for utilization in strong biocomposite materials
Project: PhD

Lignin processing within biorefining
Project: PhD

Carbohydrate degradation products within biorefining
Project: PhD
Reactive Separation Technology: Biometric Enzyme Immobilization  
Project: PhD

Enzymatic polishing and modification of lignin  
Project: PhD

Enhancing micronutrient bioavailability via designed in situ enzyme catalysis  
Project: PhD

Prebiotika til hindring af tarmzygdomme hos svin  
Project: PhD

The MacroAlgaeBiorefinery 3G (MAB3) - sustainable production of 3G bioenergy carriers and high value aquatic fish feed from macroalgae  
Project: PhD

Extraction of protein and amino acid from hemp seed meal  
Project: PhD

Optimizing the anaerobic digestion of manure  
Project: PhD

Lignin derived phenolics  
Project: PhD

Functional Electrospun Nanostructures and Microstructures for Food and Bioengineering Applications  
Project: PhD

Large scale enzymatic production of bioactive fibers from potato pulp  
Project: PhD

Reactor and Process Design for Multi-enzymatic Synthesis  
Project: PhD

Combined silage pretreatment and enzymatic hydrolysis of energy grasses for 2G bioethanol production  
Project: PhD

PhD Project in Membrane Technology  
Project: PhD

Matematisk modellering af memranseparation  
Project: PhD

SILP enzyme catalysis technology for upgrading of biomass C5 monomers  
Project: PhD

Effekter af kulhydrater på tarmens mikrobiologi  
Project: PhD
Process development: Enzymatic upgrading of pectin from sugar beet pulp  
Project: PhD

Discovery, Characterization and Design of a thermostable RGI Lyase for production of Bio-Functional Fibers  
Project: PhD

Enzymatic Production of Gut-functional Polysaccharides  
Project: PhD

Enzymatic Upgrading of Plant Biomass  
Project: PhD

Enzymatic Production of Dietary Fibres and Prebiotics from Potato Pulp  
Project: PhD

Biofuels from Nuisance Marine Algae  
Project: PhD

Enzymatic Production of Prebiotics from Sugar Beet Pectin  
Project: PhD

Ethanol Production from Rapeseed Straw and Agricultural Residues  
Project: PhD

Continuous Membrane Microbioreactors for Development of Integrated Pectin Modification and Separation Processes  
Project: PhD

The Cloning and Expression of Lignocellulose Degrading Enzymes in Themophilic Bacteria  
Project: PhD

Lignocellulose Pretreatment for Lignin Removal and Maximal Enzymatic (Ligno) Cellulose Degradation  
Project: PhD

Enzymatic Opening of Diferulate Cross-Links in Plant Cell Walls  
Project: PhD

Development of Quantitative Kinetic Models Describing Enzyme Catalyzed Heteropolysaccharide Degradation: Soluble Arabinoxylan  
Project: PhD

Development of Quantitative Kinetic Models Describing Enzyme Catalysed Heteropolysaccharide Degradation: Insoluble Arabinoxylans  
Project: PhD

Workpackage 2 in Prebiotic Center : Gut microbiota and Immune Response Effects 
Project

WP2 in Prebiotic Center : Gut microbiota and Immune Response Effects  
Project

Enzymatic Lipophilisation of Bioactive Compounds  
Project: PhD
Enzymatic catalysis for increased extraction and positive modulation of phenolic antioxidants in functional juice and wine production
Project

Pre-Treatment (and Enzymatic Hydrolysis) of Ligno-Cellulose
Project: PhD

Process for Recovering and Enzymatically Modifying Immuno-Modulating Lipoteichoic Acid from Industrial Bacillus Fermentations
Project: PhD

Prediction of Wine Quality from Phenolic Profiles of Grapes, forkortet "Wine Quality"
Project: PhD

Fungal Pigmens Potential Natural Food Colourants
Project: PhD

Optimizing Enzyme Catalyzed Phytate Degradation in Cereal Foods
Project: PhD

Post-translational Modifications of Proteins: Novel in Vitro Methods for their Study and Scale-up
Project: PhD

Development of Berry Fruit Juices with Improved Health Potential
Project: PhD

Enzymatisk Hydrolyse af Lignocellulose fra Byg, Strå og Skaller
Project: PhD

Enzyme Catalysed Production of Phospholipids with Modified Fatty Acid Profile
Project: PhD

Regulation and Characterization of Cellulases and Hemicellulases Produced by Penicillium
Project: PhD

New Thermostable Enzymes for Biomass Conversion
Project: PhD

Enzymteknologi i frugtsaftprocesser
Project: PhD

Diagnostiske tools for forståelse og afværgelse af procesproblemer i biogasanlæg
Project: PhD

Oxidationsbeskyttelse af fiskeolieholdige produkter
Project: PhD

Enzymatisk nedbrydning af arabinoxylan fra hvede
Project: PhD
Activities:

Surface properties and chemistry correlate to the digestibility of biomass following hydrothermal pretreatment at different severities

Activity: Talks and presentations › Conference presentations