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Publications:

A general overview of support materials for enzyme immobilization: Characteristics, properties, practical utility
Publication: Research - peer-review › Review – Annual report year: 2018

Alkaline extraction of seaweed carrageenan hydrocolloids using cocoa pod husk ash
Publication: Research - peer-review › Journal article – Annual report year: 2018

Boosting of enzymatic softwood saccharification by fungal GH5 and GH26 endomannanases
Publication: Research - peer-review › Journal article – Annual report year: 2018

Cellulase production by white-rot basidiomycetous fungi: solid-state versus submerged cultivation
Publication: Research - peer-review › Journal article – Annual report year: 2018

Cellulases adsorb reversibly on biomass lignin
Publication: Research - peer-review › Journal article – Annual report year: 2018

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

Corrigendum to "Rheological properties of agar and carrageenan from Ghanaian red seaweeds" [Food Hydrocolloids 63 (2017) 50–58]
Publication: Research - peer-review › Comment/debate – Annual report year: 2018

Developments in support materials for immobilization of oxidoreductases: A comprehensive review
Publication: Research - peer-review › Journal article – Annual report year: 2018

Enzymatic modification of lignin by fungal laccases
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2018

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: 2018

Hydrothermal Liquefaction of Enzymatic Hydrolysis Lignin: Biomass Pretreatment Severity Affects Lignin Valorization
Publication: Research - peer-review › Journal article – Annual report year: 2018
Immobilization of alcohol dehydrogenase on ceramic silicon carbide membranes for enzymatic CH₃ OH production
Publication: Research - peer-review › Journal article – Annual report year: 2018

Influence of mediators on laccase catalyzed radical formation in lignin
Publication: Research - peer-review › Journal article – Annual report year: 2018

Lignin from hydrothermally pretreated grass biomass retards enzymatic cellulose degradation by acting as a physical barrier rather than by inducing nonproductive adsorption of enzymes
Publication: Research - peer-review › Journal article – Annual report year: 2018

Loop engineering of an α-1,3/4-L-fucosidase for improved synthesis of human milk oligosaccharides
Publication: Research - peer-review › Journal article – Annual report year: 2018

Loop Protein Engineering for Improved Transglycosylation Activity of a β-N-Acetylhexosaminidase
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

Multiple Reaction Monitoring for quantitative laccase kinetics by LC-MS
Publication: Research - peer-review › Journal article – Annual report year: 2018

På vej mod bedre modermælkserstatning
Publication: Communication › Journal article – Annual report year: 2018

Potentials and possible safety issues of using biorefinery products in food value chains
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

Sustainable bioenergy and biofuels innovation challenge
Publication: Research - peer-review › Report chapter – Annual report year: 2018

The natural catalytic function of CuGE glucuronoyl esterase in hydrolysis of genuine lignin-carbohydrate complexes from birch
Publication: Research - peer-review › Journal article – Annual report year: 2018

Upgrading of biomass monosaccharides by immobilized glucose dehydrogenase and xylose dehydrogenase
Publication: Research - peer-review › Journal article – Annual report year: 2018

A comparative study on the activity of fungal lytic polysaccharide monoxygenases for the depolymerization of cellulose in soybean spent flakes
A New Functional Classification of Glucuronoyl Esterases by Peptide Pattern Recognition

Biocatalysis

Characterisation of Authentic Lignin Biorefinery Samples by Fourier Transform Infrared Spectroscopy and Determination of the Chemical Formula for Lignin

Characterization and immobilization of engineered sialidases from Trypanosoma rangeli for transsialylation

Characterization of alginates from Ghanaian brown seaweeds: Sargassum spp. and Padina spp

Characterization of two novel bacterial type A exo-chitobiose hydrolases having C-terminal 5/12-type carbohydrate-binding modules

Comparison of traditional field retting and Phlebia radiata Cel 26 retting of hemp fibres for fibre-reinforced composites

Compositional variations of brown seaweeds Laminaria digitata and Saccharina latissima in Danish waters

Crude fucoidan content in two North Atlantic kelp species, Saccharina latissima and Laminaria digitata - seasonal variation and impact of environmental factors

Design of Trypanosoma rangeli sialidase mutants with improved trans-sialidase activity

Direct rate assessment of laccase catalysed radical formation in lignin by electron paramagnetic resonance spectroscopy

Elemental analysis of various biomass solid fractions in biorefineries by X-ray fluorescence spectrometry

Enzymatic conversion of CO2 to CH3OH via reverse dehydrogenase cascade biocatalysis: Quantitative comparison of efficiencies of immobilized enzyme systems

Enzyme discovery for tuber processing pulps

Freezing Point Determination of Water–Ionic Liquid Mixtures
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
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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
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Effect of pectin and hemicellulose removal from hemp fibres on the mechanical properties of unidirectional hemp/epoxy composites
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Enzyme discovery for fucoidan modification
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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 Melothemus 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 vitro gastric 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-acethylhexosaminidases
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 › Conference abstract in proceedings – 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

Predicting optimal back-shock times in ultrafiltration hollow fiber modules II: Effect of inlet flow and concentration dependent viscosity
Publication: Research - peer-review › Journal article – Annual report year: 2015

Produktion af humane melkeoligosakkarider
Publication: Communication › Journal article – Annual report year: 2015

Seaweed Hydrocolloid Production: An Update on Enzyme Assisted Extraction and Modification Technologies
Publication: Research - peer-review › Journal article – Annual report year: 2015

Separation of phenolic acids from monosaccharides by low-pressure nanofiltration integrated with laccase pre-treatments
Publication: Research - peer-review › Journal article – Annual report year: 2015

Thermostability enhancement of an endo-1,4-β-galactanase from Talaromyces stipitatus by site-directed mutagenesis
Publication: Research - peer-review › Journal article – Annual report year: 2014

Time of harvest affects the yield of soluble polysaccharides extracted enzymatically from potato pulp
Publication: Research - peer-review › Journal article – Annual report year: 2013

A Novel Laccase from Ganoderma Lucidum Capable of Enhancing Enzymatic Degradation of Lignocellulolytic Biomass
Publication: Research › Patent – Annual report year: 2015

A combined metabolomic and phylogenetic study reveals putatively prebiotic effects of high molecular weight arabino-oligosaccharides when assessed by in vitro fermentation in bacterial communities derived from humans
Publication: Research - peer-review › Journal article – Annual report year: 2014

A Dynamic Model for Cellulosic Biomass Hydrolysis: a Comprehensive Analysis and Validation of Hydrolysis and Product Inhibition Mechanisms
Publication: Research - peer-review › Journal article – Annual report year: 2014

An integrated membrane system for the biocatalytic production of 3′-sialyllactose from dairy by-products
Publication: Research - peer-review › Journal article – Annual report year: 2014

A Pasteurella multocida sialyltransferase displaying dual trans-sialidase activities for production of 3′-sialyl and 6′-sialyl glycans
Publication: Research - peer-review › Journal article – Annual report year: 2013

Appearance and distribution of regioisomers in metallo- and serine-protease-catalysed acylation of sucrose in N,N-dimethylyformamide
Publication: Research - peer-review › Journal article – Annual report year: 2014

Application of enzymes for efficient extraction, modification, and development of functional properties of lime pectin
Publication: Research - peer-review › Journal article – Annual report year: 2014
Assessing Effects and interactions among key variables affecting the growth of mixotrophic microalgae: pH, inoculum volume, and growth medium composition.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Biocatalytic production of 3′-sialyllactose by use of a modified sialidase with superior trans-sialidase activity
Publication: Research - peer-review › Journal article – Annual report year: 2014

Biorefining of wheat straw: accounting for the distribution of mineral elements in pretreated biomass by an extended pretreatment – severity equation
Publication: Research - peer-review › Journal article – Annual report year: 2014

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 pectinolitic 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 catalyzed 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
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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

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

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

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

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Publication: Research - peer-review › Journal article – Annual report year: 2014

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Identification of a laccase from Ganoderma lucidum CBS 229.93 having potential for enhancing cellulase catalyzed lignocellulose degradation
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Mini Review: Basic Physiology and Factors Influencing Exogenous Enzymes Activity in the Porcine Gastrointestinal Tract
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Publication: Research - peer-review › Journal article – Annual report year: 2013

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

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Stabilization of oil-in-water emulsions by enzyme catalyzed oxidative gelation of sugar beet pectin
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Publication: Research › Ph.D. thesis – 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
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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

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

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

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

Enzyme-catalyzed oxidative gelation of sugar beet pectin: Kinetics and rheology
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Enzyme kinetics and identification of the rate-limiting step of enzymatic arabinofuranosidase degradation
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Enzymkatalyseret syntese i ioniske væsker
Publication: Research › Journal article – Annual report year: 2012

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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.
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Publication: Research - peer-review › Article in proceedings – Annual report year: 2002
Enhance extraction of antioxidant phenols from wine and juice press residues via enzymatic polysaccharide hydrolysis
Publication: Research - peer-review › Journal article – Annual report year: 2002

Enzymatic enhancement of anthocyanins and other phenolics in black currant juice
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Enzymatic extraction of antioxidative phenols from black currant juice pomace (Ribes nigrum)
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Fate of anthocyanins in industrial clarification treatment of cherry and black currant juice and the effects on antioxidant activity on low density lipoprotein oxidation in vitro
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Inhibition of oxidation of human-low-density lipoprotein by phenolic extracts from rye and by pure monomeric and dimeric hydroxycinnamates
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Microfiltration of red berry juice with thread filters: Effects of temperature, flow and filter pore size
Publication: Research - peer-review › Journal article – Annual report year: 2002

Natural food preservation
Publication: Research › Book chapter – Annual report year: 2002

Oxidative stability of fish and algae oils containing long-chain polyunsaturated fatty acids in bulk and in oil-in-water emulsions
Publication: Research - peer-review › Journal article – Annual report year: 2002

Retention of phenolic phytochemicals by new technological approaches in berry juice processing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2002

Antioxidant activity of hydroxycinnamic acids on human low-density lipoprotein oxidation
Publication: Research › Book chapter – Annual report year: 2001

Antioxidant effects of phenolic rye (Secale cereale L.) extracts, monomeric hydroxycinnamates, and ferulic acid dehydrodimers on human low-density lipoproteins
Publication: Research - peer-review › Journal article – Annual report year: 2001

Ascorbic acid improves the antioxidant activity of European grape juices by improving the juices' ability to inhibit lipid peroxidation of human LDL in vitro
Publication: Research - peer-review › Journal article – Annual report year: 2001

Efficiency of enzymatic and other alternative clarification and fining treatments on turbidity and haze in cherry juice
Publication: Research - peer-review › Journal article – Annual report year: 2001

Enzymatic enhancement and antioxidant activities of anthocyanins and other phenolic compounds in black currant juice
Publication: Research › Book chapter – Annual report year: 2001

Enzymatic enhancement and oxidant activities of anthocyanins and other phenolic compounds in black currant juice
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Enzyme-assisted extraction of antioxidative phenols from black current juice press residues (Ribes nigrum)
Publication: Research - peer-review › Journal article – Annual report year: 2001
Enzyme-assisted release of phenolic antioxidants from wine and juice press residues and their effect on human LDL oxidation in vitro
Publication: Research - peer-review › Book chapter – Annual report year: 2001

Lipid oxidation in fish oil enriched mayonnaise: Calcium disodium ethylenediaminetetraacetate, but not gallic acid, strongly inhibited oxidative deterioration
Publication: Research - peer-review › Journal article – Annual report year: 2001

Oxidation in fish oil-enriched mayonnaise: Effect of tocopherol concentration on oxidative deterioration
Publication: Research - peer-review › Journal article – Annual report year: 2001

Oxidation in fish oil enriched mayonnaise: Ascorbic acid and low pH increase oxidative deterioration
Publication: Research - peer-review › Journal article – Annual report year: 2001

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

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 Suspended 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 mannose containing substrates 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

Enzymatic polishing and modification of lignin
Project: PhD

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

Prebiotika til hindring af tarmesygdomme 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

Optimizing the anaerobic digestion of manure
Project: PhD

Lignin derived phenolics
Project: PhD

Functional Electrospun Nanostructures and Microstructures for Food and Bioengineering Applications
Project

Large scale enzymatic production of bioactive fibers from potato pulp
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 membrandsepation
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 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 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 Pigments Potential Natural Food Colourants
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

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

Ulinær dynamik i biologiske reaktioner
Project: PhD

Nye Strategier til Forbedring af frugtsaftkvalitet
Project: PhD
**Aroma formation by staphylococcus starter cultures - the influence of growth parameters**
Project: PhD

**Funktionel kvalitet af hvede til produktion af kiks**
Project: PhD

**Phenolic acids in rye**
Project

**Oxidationsmekanismer i fiskeolieholdige**
Project: PhD

**Oxidation mechanisms in fish oil enriched emulsions**
Project

**Application of enzymes for food protection**
Project

**Application of plant cell wall degrading enzymes in food technology.**
Project

**Activities:**

**Surface properties and chemistry correlate to the digestibility of biomass following hydrothermal pretreatment at different severities**
Activity: Talks and presentations › Conference presentations