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Tian, H., Treu, L., Konstantopoulos, K., Fotidis, I. & Angelidaki, I. 2019 In : Bioresource Technology. 272, p. 54-62
Research output: Research - peer-review › Journal article – Annual report year: 2019

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Acclimation to extremely high ammonia levels in continuous biomethanation process and the associated microbial community dynamics
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Research output: Research - peer-review › Review – Annual report year: 2018

Anaerobic co-digestion of macroalgal biomass with cattle manure under high salinity conditions
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

A novel process for volatile fatty acids production from syngas by integrating with mesophilic alkaline fermentation of waste activated sludge
Research output: Research - peer-review › Journal article – Annual report year: 2018

A proposed mechanism for the ammonia-LCFA synergetic co-inhibition effect on anaerobic digestion process
Research output: Research - peer-review › Journal article – Annual report year: 2018

Bioelectrochemical systems serve anaerobic digestion process for process monitoring and biogas upgrading
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Bio-Electro-Fenton processes for wastewater treatment: advances and prospects
Research output: Research - peer-review › Journal article – Annual report year: 2018

Bio-Electro-Fenton process for the degradation of Non-Steroidal Anti-Inflammatory Drugs in wastewater
Research output: Research - peer-review › Journal article – Annual report year: 2018
Biogas and its opportunities—A review
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Research output: Research - peer-review » Review – Annual report year: 2018

Biogas upgrading and utilization: Current status and perspectives
Research output: Research - peer-review » Review – Annual report year: 2018

Biorefineries: Focusing on a Closed Cycle Approach with Biogas as the Final Step
Research output: Research - peer-review » Book chapter – Annual report year: 2018

Co-digestion and model simulations of source separated municipal organic waste with cattle manure under batch and continuously stirred tank reactors
Research output: Research - peer-review » Journal article – Annual report year: 2018

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Effect of different ammonia sources on aceticlastic and hydrogenotrophic methanogens
Research output: Research - peer-review » Journal article – Annual report year: 2018

Energy recovery from wastewater microalgae through anaerobic digestion process: Methane potential, continuous reactor operation and modelling aspects
Research output: Research » Journal article – Annual report year: 2018

Factors influencing the fate of antibiotic resistance genes during thermochemical pretreatment and anaerobic digestion of pharmaceutical waste sludge
Hybrid biogas upgrading in a two-stage thermophilic reactor  

Hydrogen-Fueled Microbial Pathways in Biogas Upgrading Systems Revealed by Genome-Centric Metagenomics  

Impact of graphene on ZnO assisted photocatalysis for degradation of lignin rich substrates by UV/Iodide process  

Integrated production of cellulosic bioethanol and succinic acid from rapeseed straw after dilute-acid pretreatment  

Life cycle assessment of castor-based biorefinery: a well to wheel LCA  

Life cycle assessment of different strategies for energy and nutrient recovery from source sorted organic fraction of household waste  

Mechanical pretreatment for increased biogas production from lignocellulosic biomass; predicting the methane yield from structural plant components  

Metagenomic binning reveals the functional roles of core abundant microorganisms in twelve full-scale biogas plants  

Microalgal process-monitoring based on high-selectivity spectroscopy tools: status and future perspectives  

Microbial activity response to hydrogen injection in thermophilic anaerobic digesters revealed by genome-centric metatranscriptomics  

Microbial electrochemical separation of CO₂ for biogas upgrading  
Research output: Research - peer-review › Journal article – Annual report year: 2018

TiO2–AgCl Based Nanoparticles for Photocatalytic Production of Phenolic Compounds from Lignocellulosic Residues
Tsapekos, P., Alvarado-Morales, M., Boscari, D., Mazari, M., Santori, L. & Angelidaki, I. 2018 In: Energy and Fuels. 32, 6, p. 6813-6822
Research output: Research - peer-review › Journal article – Annual report year: 2018

Two-year microbial adaptation during hydrogen-mediated biogas upgrading process in a serial reactor configuration
Research output: Research - peer-review › Journal article – Annual report year: 2018

Valorisation of Effluents from Anaerobic Digestion as Single Cell Protein – Focus on Safe Gas Supply
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2018

Acclimation of ammonia tolerant methanogenic consortia using different bioreactor types
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

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Research output: Research - peer-review › Paper – Annual report year: 2017

Anaerobic granular sludge for simultaneous biomethanation of synthetic wastewater and CO with focus on the identification of CO-converting microorganisms
Research output: Research - peer-review › Journal article – Annual report year: 2017

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Research output: Research - peer-review › Review – Annual report year: 2017

Antibiotic Resistance Genes and Correlations with Microbial Community and Metal Resistance Genes in Full-Scale Biogas Reactors As Revealed by Metagenomic Analysis
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Research output: Research - peer-review › Journal article – Annual report year: 2017

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Research output: Research - peer-review › Review – Annual report year: 2017

A systematic methodology to extend the applicability of a biocconversion model for the simulation of various co-digestion scenarios
Research output: Research - peer-review › Journal article – Annual report year: 2017
Batch, fed-batch and CSTR reactors as cultivation systems to acclimate ammonia tolerant methanogenic consortia
Research output: Research - peer-review › Poster – Annual report year: 2017

Bioaugmentation with hydrolytic microbes to improve the anaerobic biodegradability of lignocellulosic agricultural residues
Research output: Research - peer-review › Journal article – Annual report year: 2017

Bioelectricity production and microbial communities in microbial fuel cell powered by macroalgal biomass
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

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Research output: Research - peer-review › Journal article – Annual report year: 2017

Biological caproate production by Clostridium kluyveri from ethanol and acetate as carbon sources
Research output: Research - peer-review › Journal article – Annual report year: 2017

Biological systems for simultaneous methanation of CO2 and H2 by anaerobic microorganisms
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Butanol fermentation of the brown seaweed Laminaria digitata by Clostridium beijerinckii DSM-6422
Research output: Research - peer-review › Journal article – Annual report year: 2017

Characterization of the planktonic microbiome in upflow anaerobic sludge blanket reactors during adaptation of mesophilic methanogenic granules to thermophilic operational conditions
Research output: Research - peer-review › Journal article – Annual report year: 2017

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Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

Comparison of Fenton, UV-Fenton and nano-Fe3O4 catalyzed UV-Fenton in degradation of phloroglucinol under neutral and alkaline conditions: Role of complexation of Fe3+ with hydroxyl group in phloroglucinol
Research output: Research - peer-review › Journal article – Annual report year: 2017

Detailing the start-up and microalgal growth performance of a full-scale photobioreactor operated with bioindustrial wastewater
Research output: Research - peer-review › Journal article – Annual report year: 2017

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Research output: Research - peer-review › Journal article – Annual report year: 2017
Effect of micro-aeration and inoculum type on the biodegradation of lignocellulosic substrate
Research output: Research - peer-review › Journal article – Annual report year: 2017

Effect of nitrogen source and acclimatization on specific growth rates of microalgae determined by a high throughput in vivo microplate autofluorescence method
Research output: Research - peer-review › Poster – Annual report year: 2017

Efficient treatment of aniline containing wastewater in bipolar membrane microbial electrolysis cell-Fenton system
Research output: Research - peer-review › Journal article – Annual report year: 2017

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Research output: Research - peer-review › Journal article – Annual report year: 2017

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Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

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Research output: Research - peer-review › Journal article – Annual report year: 2017

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Research output: Research - peer-review › Journal article – Annual report year: 2017

High efficient ethanol and VFAs production from gas fermentation: effect of acetate, gas and inoculum microbial composition
Research output: Research - peer-review › Journal article – Annual report year: 2017

Improving the energy balance of grass-based anaerobic digestion through combined harvesting and pretreatment
Research output: Research - peer-review › Journal article – Annual report year: 2017

Insights on the activity of the anaerobic digestion microbiome by means of metatranscriptomic functional investigation
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

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Research output: Research - peer-review › Journal article – Annual report year: 2017
Integrated electrochemical-biological process as an alternative mean for ammonia monitoring during anaerobic digestion of organic wastes
Research output: Research - peer-review › Journal article – Annual report year: 2017

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Research output: Research - peer-review › Journal article – Annual report year: 2017

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Microbial community dynamics during a successful acclimation process to extremely high ammonia levels in continuous anaerobic digester
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2017

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Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

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Research output: Research - peer-review › Journal article – Annual report year: 2017

Microbial population dynamics in urban organic waste anaerobic co-digestion with mixed sludge during a change in feedstock composition and different hydraulic retention times
Research output: Research - peer-review › Journal article – Annual report year: 2017
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Research output: Research - peer-review › Journal article – Annual report year: 2017

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Research output: Research - peer-review › Journal article – Annual report year: 2017

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Research output: Research - peer-review › Journal article – Annual report year: 2017

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Research output: Research › Patent – Annual report year: 2016

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

Ammonia - LCFA synergetic co-inhibition effect in manure-based continuous biomethanation process
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An innovative process for biogas upgrading by the microbial electrolysis cell
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Bioflocculation of green microalgae using activated sludge and potential for biogas production
Research output: Research - peer-review › Poster – Annual report year: 2016

Bioremediation capacity, nutritional value and biorefining of macroalgae Saccharina latissima

Co-digestion of food and garden waste with mixed sludge from wastewater treatment in continuously stirred tank reactors
Research output: Research - peer-review › Journal article – Annual report year: 2016

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Research output: Research - peer-review › Poster – Annual report year: 2016

Comparative analysis of taxonomic, functional, and metabolic patterns of microbiomes from 14 full-scale biogas reactors by metagenomic sequencing and radioisotopic analysis
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Research output: Research - peer-review › Journal article – Annual report year: 2016

Cultivation of microalgae in industrial wastewaters

Deeper insight into the structure of the anaerobic digestion microbial community; the biogas microbiome database is expanded with 157 new genomes
Research output: Research - peer-review › Journal article – Annual report year: 2016

Dynamic bioconversion mathematical modelling and simulation of urban organic waste co-digestion in continuously stirred tank reactor
Dynamic functional characterization and phylogenetic changes due to Long Chain Fatty Acids pulses in biogas reactors
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Research output: Research - peer-review › Journal article – Annual report year: 2016

Evaluation of minerals and vitamins in the Danish cultivated sugar kelp
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Extraction of alginate from Sargassum muticum: process optimization and study of its functional activities
Research output: Research - peer-review › Journal article – Annual report year: 2016

Forward osmosis treatment of effluents from anaerobic digestion: correlation between membrane performance and biogas potential
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Improving methane production from digested manure biofibers by mechanical and thermal alkaline pretreatment
Research output: Research - peer-review › Journal article – Annual report year: 2016

Improving the energy balance of grass-based anaerobic digestion through harvesting optimization
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Innovative microbial electrochemical process for H₂O₂ synthesis and residual H₂O₂ removal for wastewater treatment
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

In-situ biogas upgrading in thermophilic granular UASB reactor; key factors affecting the hydrogen mass transfer rate
Research output: Research - peer-review › Journal article – Annual report year: 2016

Integrated production of cellulosic bioethanol and succinic acid from industrial hemp in a biorefinery concept
Research output: Research - peer-review › Journal article – Annual report year: 2016

Low-sludge age EBPR process for resource recovery – microbial and biochemical process characterization
Research output: Research - peer-review › Poster – Annual report year: 2016

Mesophilic and thermophilic alkaline fermentation of waste activated sludge for hydrogen production: Focusing on homoacetogenesis
Research output: Research - peer-review › Journal article – Annual report year: 2016
Metagenomic analysis and functional characterization of the biogas microbiome using high throughput shotgun sequencing and a novel binning strategy
Research output: Research - peer-review › Journal article – Annual report year: 2016

Methane Production and Kinetic Modeling for Co-digestion of Manure with Lignocellulosic Residues
Research output: Research - peer-review › Journal article – Annual report year: 2016

Methane production from formate, acetate and H₂/CO₂, focusing on kinetics and microbial characterization
Research output: Research - peer-review › Journal article – Annual report year: 2016

Microbial and biochemical process characterization of a low-sludge age EBPR process for resource recovery
Research output: Research - peer-review › Poster – Annual report year: 2016

Microbial electrochemical monitoring of volatile fatty acids during anaerobic digestion
Research output: Research - peer-review › Journal article – Annual report year: 2016

Microbial Electrochemical Systems and Technologies: It Is Time To Report the Capital Costs
Research output: Research › Comment/debate – Annual report year: 2016

Microbial electrosynthesis of hydrogen peroxide in microbial reverse-electrodialysis electrolysis cell
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Monitoring of volatile fatty acids during anaerobic digestion using a microbial electrochemical sensor
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2016

Optimising the anaerobic co-digestion of urban organic waste using dynamic bioconversion mathematical modelling
Research output: Research - peer-review › Journal article – Annual report year: 2016

Optimization of biomethanation focusing on high ammonia loaded processes

Recent developments on biofuels production from microalgae and macroalgae
Research output: Research - peer-review › Journal article – Annual report year: 2016

Taxonomy and functional roles of biogas microbiota binned from multiple metagenomes of anaerobic digestion systems
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017
The microbiome of biogas reactors treating lignocellulosic substrates revealed different mechanisms for carbohydrates utilization
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2017

TiO2 assisted photo-oxidative pretreatment of wheat straw for biogas production
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Towards a standardization of biomethane potential tests
Research output: Research - peer-review › Journal article – Annual report year: 2016

Untangling the Effect of Fatty Acid Addition at Species Level Revealed Different Transcriptional Responses of the Biogas Microbial Community Members
Research output: Research - peer-review › Journal article – Annual report year: 2016

Using a combination of binning strategies and taxonomic approaches to unravel the anaerobic digestion microbiome
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Valorization of macroalga Saccharina latissima as novel feedstock for fermentation-based succinic acid production in a biorefinery approach and economic aspects
Research output: Research - peer-review › Journal article – Annual report year: 2016

Variation in biochemical composition of Saccharina latissima and Laminaria digitata along an estuarine salinity gradient in inner Danish waters
Research output: Research - peer-review › Journal article – Annual report year: 2016

Recovery of ammonia and sulfate from waste streams and bioenergy production via bipolar bioelectrodialysis
Research output: Research - peer-review › Journal article – Annual report year: 2015

Alternate switching between microbial fuel cell and microbial electrolysis cell operation as a new method to control H2O2 level in Bioelectro-Fenton system
Research output: Research - peer-review › Journal article – Annual report year: 2015

Ammonia effect on hydrogenotrophic methanogens and syntrophic acetate oxidizing bacteria
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Ammonia effect on hydrogenotrophic methanogens and syntrophic acetate oxidizing bacteria
Research output: Research - peer-review › Poster – Annual report year: 2015
Ammonia effect on hydrogenotrophic methanogens and syntrophic acetate oxidizing bacteria
Research output: Research - peer-review › Journal article – Annual report year: 2015

Ammonia tolerant enriched methanogenic cultures as bioaugmentation inocula to alleviate ammonia inhibition in continuous anaerobic reactors
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Ammonia tolerant enriched methanogenic cultures as bioaugmentation inocula to alleviate ammonia inhibition in continuous anaerobic reactors
Research output: Research - peer-review › Poster – Annual report year: 2015

Anaerobic co-digestion of agricultural by-products with manure, for enhanced biogas production
Research output: Research - peer-review › Journal article – Annual report year: 2015

Anaerobic Mono- and Co-digestion of Mechanically Pretreated Meadow Grass for Biogas Production
Research output: Research - peer-review › Journal article – Annual report year: 2015

Application of comminution machines to enhance the anaerobic biodegradability of ensiled meadow grass
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Bioelectrochemical recovery of waste-derived volatile fatty acids and production of hydrogen and alkali
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Research output: Research - peer-review › Journal article – Annual report year: 2015

Biogas production from ensiled meadow grass; effect of mechanical pretreatments and rapid determination of substrate biodegradability via physicochemical methods
Research output: Research - peer-review › Journal article – Annual report year: 2015

Biogas upgrading by injection of hydrogen in a two-stage Continuous Stirred-Tank Reactor system
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Biogas Upgrading via Hydrogenotrophic Methanogenesis in Two-Stage Continuous Stirred Tank Reactors at Mesophilic and Thermophilic Conditions
Research output: Research - peer-review › Journal article – Annual report year: 2015

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Silva Marinho, G., Holdt, S. L. & Angelidaki, I. 2015
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Characterization of nutrient removal and microalgal biomass production on an industrial waste-stream by application of the deceleration-stat technique
Research output: Research - peer-review › Journal article – Annual report year: 2015
Co-Digestion of Food Waste and Garden Waste With WTP Mixed Sludge in CSTR
Research output: Research - peer-review › Poster – Annual report year: 2016

Combined anaerobic digestion of green waste with wastewater treatment plant mixed sludge in continuous stirred tank reactor (CSTR)
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2016

Commercial cultivation and bioremediation potential of sugar kelp, Saccharina latissima, in Danish waters
Research output: Research - peer-review › Conference article – Annual report year: 2015

Comparison of mixotrophic to cyclic autotrophic/heterotrophic growth strategies to optimize productivity of Chlorella sorokiniana
Research output: Research - peer-review › Conference article – Annual report year: 2015

Counteracting ammonia inhibition during anaerobic digestion by recovery using submersible microbial desalination cell
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Counteracting foaming caused by lipids or proteins in biogas reactors using rapeseed oil or oleic acid as antifoaming agents
Research output: Research - peer-review › Journal article – Annual report year: 2015

Economically Viable Components from Jerusalem Artichoke (Helianthus tuberosus L.) in a Biorefinery Concept
Research output: Research - peer-review › Review – Annual report year: 2016

Effect of ammonia on hydrogenotrophic methanogens and syntrophic acetate oxidizing bacteria
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Effect of nitrogen source and acclimatization on specific growth rates of microalgae determined by a high-throughput in vivo microplate autofluorescence method
Research output: Research - peer-review › Conference article – Annual report year: 2015

Effect of pulse and continuous addition of oleate on microbial communities involved in anaerobic digestion process
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015

Effects of Benzalkonium Chloride, Proxel LV, P3 Hypochloran, Triton X-100 and DOWFAX 63N10 on anaerobic digestion processes
Research output: Research - peer-review › Journal article – Annual report year: 2015
Effects of triclosan, diclofenac, and nonylphenol on mesophilic and thermophilic methanogenic activity and on the methanogenic communities
Research output: Research - peer-review • Journal article – Annual report year: 2015

Ethanol production from steam exploded rapeseed straw and the process simulation using artificial neural networks
Research output: Research - peer-review • Journal article – Annual report year: 2016

Evaluation of the Danish cultivated sugarkelp as possible future source of ingredients such as minerals and pigments
Research output: Research - peer-review • Conference abstract in proceedings – Annual report year: 2015

High performance of nanoscaled Fe$_2$O$_3$ catalyzing UV-Fenton under neutral condition with a low stoichiometry of H$_2$O$_2$: Kinetic study and mechanism
Research output: Research - peer-review • Journal article – Annual report year: 2015

Hydrogen mediated biogas upgrading in a two-stage mesophilic reactor
Research output: Research - peer-review • Conference abstract in proceedings – Annual report year: 2015

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Research output: Research - peer-review • Conference abstract in proceedings – Annual report year: 2015

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Research output: Research - peer-review • Conference abstract in proceedings – Annual report year: 2015

Laminaria digitata as a potential carbon source for succinic acid and bioenergy production in a biorefinery perspective
Research output: Research - peer-review • Journal article – Annual report year: 2015

Lipids and Composition of Fatty Acids of Saccharina latissima Cultivated Year-round in Integrated Multi-trophic Aquaculture
Research output: Research - peer-review • Journal article – Annual report year: 2015

Macroalgae Laminaria digitata as potential carbon source in heterotrophic Chlorella protothecoides cultivation: an innovative biorefinery concept
Research output: Research - peer-review • Conference abstract in proceedings – Annual report year: 2015

Mechanical Pretreatment to Increase the Bioenergy Yield for Full-scale Biogas Plants
Research output: Research - peer-review • Conference abstract for conference – Annual report year: 2015
Metagenomic analysis on thermophilic biogas reactors fed with high load of Long Chain Fatty Acids (LCFA)

Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2015

Microbial diversity and dynamicity of biogas reactors due to radical changes of feedstock composition

Research output: Research - peer-review › Journal article – Annual report year: 2015

Microbial dynamics in anaerobic digestion (AD) reactors with sodium oleate in the substrate

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

Microbial electrochemical monitoring of volatile fatty acids during anaerobic digestion

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

New steady-state microbial community compositions and process performances in biogas reactors induced by temperature disturbances

Research output: Research - peer-review › Journal article – Annual report year: 2015

Salinity-Gradient Energy Driven Microbial Electrosynthesis of Hydrogen Peroxide from Oxygen Reduction

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

Seasonal Amino Acid Profile and Nutritional Value of Saccharina Latissima in a Commercial IMTA System

Research output: Research › Conference abstract for conference – Annual report year: 2015

Seasonal variations in the amino acid profile and protein nutritional value of Saccharina latissima cultivated in a commercial IMTA system

Research output: Research - peer-review › Conference article – Annual report year: 2015

Seaweed potentials – evaluation of year-round biomass composition of commercial cultivated sugarkelp- results from project KOMBI

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Solutions for Foaming Problems in Biogas Reactors Using Natural Oils or Fatty Acids as Defoamers

Research output: Research - peer-review › Conference article – Annual report year: 2015

Submersible microbial desalination cell for simultaneous ammonia recovery and electricity production from anaerobic reactors containing high levels of ammonia

Research output: Research - peer-review › Journal article – Annual report year: 2015

The biodegradably of a feedstock is determining the optimal C/N ratios in anaerobic digestion

Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2015
Thermochemical pretreatments for enhancing succinic acid production from industrial hemp (Cannabis sativa L.)
Research output: Research - peer-review > Journal article – Annual report year: 2015

Unconventional biomasses as feedstocks for production of biofuels and succinic acid in a biorefinery concept

15 ud af 16 biogasanlæg oplever problemer med skum
Angelidaki, I. 2014 In : FIB - Forskning i Bioenergi, Brint & Brændselsceller. 50, p. 26-26
Research output: Communication > Journal article – Annual report year: 2015

A bio-electrochemical system for removing inhibitors of anaerobic digestion processes from anaerobic reactors
Research output: Research > Patent – Annual report year: 2014

A Green Micro-Algal Growth Model developed in the Activated Sludge Modeling Framework
Research output: Research > peer-review > Poster – Annual report year: 2014

An Activated Sludge Model for Mixed Green Microalgae (ASM-A): model identification and calibration
Research output: Research > peer-review > Paper – Annual report year: 2014

Anaerobic digestion foaming in full-scale biogas plants: A survey on causes and solutions
Research output: Research > peer-review > Journal article – Annual report year: 2014

Analysis of bacterial communities and bacterial pathogens in a biogas plant by the combination of ethidium monoazide, PCR and Ion Torrent sequencing
Research output: Research > peer-review > Journal article – Annual report year: 2014

An environmentally-friendly fluorescent method for quantification of lipid contents in yeast
Research output: Research > peer-review > Journal article – Annual report year: 2013

A new degassing membrane coupled upflow anaerobic sludge blanket (UASB) reactor to achieve in-situ biogas upgrading and recovery of dissolved CH4 from the anaerobic effluent
Research output: Research > peer-review > Journal article – Annual report year: 2014

An innovative bioelectrochemical-anaerobic digestion-coupled system for in-situ ammonia recovery and biogas enhancement: process performance and microbial ecology
Research output: Research > peer-review > Conference abstract for conference – Annual report year: 2015

A novel bioinformatic strategy to characterise microbial communities in biogas reactors
Research output: Research > peer-review > Conference abstract in proceedings – Annual report year: 2014
Antifoaming effect of rapeseed oil and oleic acid in biogas reactors
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Bioaugmentation as a solution to increase methane production from an ammonia-rich substrate
Research output: Research - peer-review › Journal article – Annual report year: 2014

Bioaugmentation with a hydrogenotrophic methanogen: a powerful tool to overcome ammonia inhibition of anaerobic digestion process
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Bioelectrode-based approach for enhancing nitrate and nitrite removal and electricity generation from eutrophic lakes
Zhang, Y. & Angelidaki, I. 2014
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2014

Changes in the microbial profile of biogas reactors due to variations in the feedstock composition
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Comparative analysis of the microbial diversity in liquid and foaming layer in biogas reactors
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Comparative microbial analysis before and after foaming incidents in biogas reactors
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Comparison of VFA titration procedures used for monitoring the biogas process
Research output: Research - peer-review › Journal article – Annual report year: 2014

Danish Biomethanation Technologies for Novel Substrates Evaluation in Remote Rural Areas of India
Research output: Research - peer-review › Poster – Annual report year: 2014

Effective harvesting of the microalgae Chlorella protothecoides via bioflocculation with cationic starch.
Research output: Research - peer-review › Journal article – Annual report year: 2014

Effect of mechanical pre-treatment methods on the anaerobic digestibility and structure change of meadow grass for biogas production
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014
Nanomodification of the electrodes in microbial fuel cell: impact of nanoparticle density on electricity production and microbial community
Research output: Research - peer-review | Journal article – Annual report year: 2014

Optimization of extraction process of crude alginate from Sargassum muticum by response surface methodology
Research output: Research - peer-review | Poster – Annual report year: 2014

Photomicrobial fuel cell (PFC) for simultaneous organic carbon, nutrients removal and energy production
Research output: Research - peer-review | Conference abstract in proceedings – Annual report year: 2014

Potential of Jerusalem artichoke (Helianthus tuberosus L.) as a biorefinery crop
Research output: Research - peer-review | Journal article – Annual report year: 2014

Removal of organic pollutants in tannery wastewater from wet-blue fur processing by integrated Anoxic/Oxic (A/O) and Fenton: Process optimization
Research output: Research - peer-review | Journal article – Annual report year: 2014

Succinic acid production by fermentation of Jerusalem artichoke tuber hydrolysate with Actinobacillus succinogenes 130Z
Research output: Research - peer-review | Journal article – Annual report year: 2014

The dominant acetate degradation pathway/methanogenic composition in full-scale anaerobic digesters operating under different ammonia levels
Research output: Research - peer-review | Journal article – Annual report year: 2013

The Effect Of Light On Mixed Green Micro-Algal Growth: Experimental Assessment And Modelling
Research output: Research - peer-review | Poster – Annual report year: 2014

Utilization of CO₂ fixating bacterium Actinobacillus succinogenes 130Z for simultaneous biogas upgrading and bio-succinic acid production
Research output: Research - peer-review | Journal article – Annual report year: 2014

A Mixed Green Micro-Algal Model (MAMO) – Model Identification And Calibration Using Synthetic Medium And Nutrient Rich Carbon Depleted Wastewater
Research output: Research - peer-review | Paper – Annual report year: 2014

Anaerobic digestion foaming in Danish full-scale biogas plants: a survey on causes and solutions
Research output: Research | Sound/Visual production (digital) – Annual report year: 2013

Anaerobic digestion for simultaneous sewage sludge treatment and CO biomethanation: process performance and microbial ecology
Life cycle assessment of biofuel production from brown seaweed in Nordic conditions
Research output: Research - peer-review › Journal article – Annual report year: 2013

Lipid profiles of yeast cells under different growth conditions
Research output: Research - peer-review › Poster – Annual report year: 2013

Methods and apparatus for hydrogen based biogas upgrading
Research output: Research › Patent – Annual report year: 2013

Microalgae Biorefinery - Industrial Symbiosis
Research output: Research › Poster – Annual report year: 2014

Microwave and thermal pretreatment as methods for increasing the biogas potential of secondary sludge from municipal wastewater treatment plants
Research output: Research › Journal article – Annual report year: 2013

Når biogasanlægget skummer over
Research output: Research › Journal article – Annual report year: 2013

Optimization of bioethanol production from carbohydrate rich wastes by extreme thermophilic microorganisms
Research output: Research › Ph.D. thesis – Annual report year: 2013

Performance and microbial community analysis of the anaerobic reactor with coke oven gas biomethanation and in situ biogas upgrading
Research output: Research › Journal article – Annual report year: 2013

Simultaneous production of hydrogen and ethanol from waste glycerol by Enterobacter aerogenes KKS-1
Research output: Research › Journal article – Annual report year: 2013

Succinic acid production from Jerusalem artichoke
Research output: Research › Poster – Annual report year: 2013

Succinic acid production from Jerusalem artichoke
Research output: Research › Paper – Annual report year: 2013

Thermoanaerobacter pentosaceus sp. nov., an anaerobic, extreme thermophilic, high ethanol-yielding bacterium isolated from household waste
Research output: Research › Journal article – Annual report year: 2012
Green macroalgae for biomitigation of nutrients, purification of biogas and energy production
Research output: Research › Poster – Annual report year: 2012

Immobilisation of an ammonia tolerant methanogenic consortium in high performance anaerobic digesters
Research output: Research - peer-review › Poster – Annual report year: 2013

Influence of microbial composition on foam formation in a manure-based digester
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Innovative self-powered submersible microbial electrolysis cell (SMEC) for biohydrogen production from anaerobic reactors
Zhang, Y. & Angelidaki, I. 2012 In : Water Research. 46, 8, p. 2727-2736
Research output: Research - peer-review › Journal article – Annual report year: 2012

Integrated biogas upgrading and hydrogen utilization in an anaerobic reactor containing enriched hydrogenotrophic methanogenic culture
Research output: Research - peer-review › Journal article – Annual report year: 2012

Microalgal carbohydrates: an overview of the factors influencing carbohydrates production, and of main bioconversion technologies for production of biofuels
Research output: Research - peer-review › Review – Annual report year: 2012

Microalgal Cultivation at Kalundborg Municipal Wastewater Treatment Facility
Research output: Research - peer-review › Poster – Annual report year: 2012

Mikroorganismer kan øge gasudbyttet
Fotidis, I., Karakashev, D. B. & Angelidaki, I. 2012 In : FIB - Forskning i Bioenergi, Brint & Brændselsceller. 9, 39, p. 17
Research output: Research - peer-review › Journal article – Annual report year: 2012

Pilot-scale application of an online VFA sensor for monitoring and control of a manure digester
Research output: Research - peer-review › Journal article – Annual report year: 2012

Screening and Optimization of Case Specific Sustainable Mixotrophic Microalgal Medium
Research output: Research - peer-review › Poster – Annual report year: 2013

Self-stacked submersible microbial fuel cell (SSMFC) for improved remote power generation from lake sediments
Research output: Research - peer-review › Journal article – Annual report year: 2012

Simultaneous hydrogen utilization and in situ biogas upgrading in an anaerobic reactor
Research output: Research - peer-review › Journal article – Annual report year: 2011
Surface Area Expansion of Electrodes with Grass-like Nanostructures to Enhance Electricity Generation in Microbial Fuel Cells
Research output: Research - peer-review › Journal article – Annual report year: 2012

Thermophilic anaerobic co-digestion of oil palm empty fruit bunches with palm oil mill effluent for efficient biogas production
Research output: Research - peer-review › Journal article – Annual report year: 2012

Use of a newly isolated extreme thermophile for the production of 2nd generation bio-ethanol
Research output: Research - peer-review › Poster – Annual report year: 2012

Anaerobic co-digestion of by-products from sugar production with cow manure
Research output: Research - peer-review › Journal article – Annual report year: 2011

Anaerobic co-digestion of desugared molasses with cow manure; focusing on sodium and potassium inhibition
Fang, C., Boe, K. & Angelidaki, I. 2011 In: Bioresource Technology. 102, p. 1005-1011
Research output: Research - peer-review › Journal article – Annual report year: 2011

Anaerobic Digestion: Process
Research output: Research - peer-review › Book chapter – Annual report year: 2011

Biogas production from potato-juice, a by-product from potato-starch processing, in upflow anaerobic sludge blanket (UASB) and expanded granular sludge bed (EGSB) reactors
Fang, C., Boe, K. & Angelidaki, I. 2011 In: Bioresource Technology. 102, 10, p. 5734-5741
Research output: Research - peer-review › Journal article – Annual report year: 2011

Biohydrogen production from desugared molasses (DM) using thermophilic mixed cultures immobilized on heat treated anaerobic sludge granules
Research output: Research - peer-review › Journal article – Annual report year: 2011

Biomethanation and Its Potential
Research output: Research - peer-review › Journal article – Annual report year: 2011

Comment on "Parameter Identification and Modeling of the Biochemical Methane Potential of Waste Activated Sludge" (1)
Research output: Research - peer-review › Journal article – Annual report year: 2011

Comparison of UASB and EGSB reactors performance, for treatment of raw and deoiled palm oil mill effluent (POME)
Research output: Research - peer-review › Journal article – Annual report year: 2011

Cultivation of the green macroalgae Ulva lactuca and Ulva splendens for biofuels production
Research output: Research › Poster – Annual report year: 2011
Effect of xylose and nutrients concentration on ethanol production by a newly isolated extreme thermophilic bacterium
Research output: Research - peer-review › Journal article – Annual report year: 2011

Electricity generation and microbial community response to substrate changes in microbial fuel cell
Zhang, Y., Min, B., Huang, L. & Angelidaki, I. 2011 In : Bioresource Technology. 102, 2, p. 1166-1173
Research output: Research - peer-review › Journal article – Annual report year: 2011

Electricity generation by microbial fuel cells fuelled with wheat straw hydrolysate
Thygesen, A., Poulsen, F. W., Angelidaki, I., Min, B. & Thomsen, A. B. 2011 In : Biomass & Bioenergy. 35, 11, p. 4732-4739
Research output: Research - peer-review › Journal article – Annual report year: 2011

Emerging Biological Technologies: Biofuels and Biochemicals
Research output: Research - peer-review › Book chapter – Annual report year: 2011

Enhanced bioenergy recovery from rapeseed plant in a biorefinery concept
Research output: Research - peer-review › Journal article – Annual report year: 2011

Enhancement of bioenergy production from organic wastes by two-stage anaerobic hydrogen and methane production process
Luo, G., Xie, L., Zhou, Q. & Angelidaki, I. 2011 In : Bioresource Technology. 102, 18, p. 8700-8706
Research output: Research - peer-review › Journal article – Annual report year: 2011

High rate algal biomass production for food, biochemicals and Biofuels: An Indo-Danish collaboration project.
Research output: Research › Conference abstract for conference – Annual report year: 2011

In situ microbial fuel cell-based biosensor for organic carbon
Research output: Research - peer-review › Journal article – Annual report year: 2011

Long-term effect of inoculum pretreatment on fermentative hydrogen production by repeated batch cultivations: homoacetogenesis and methanogenesis as competitors to hydrogen production
Research output: Research - peer-review › Journal article – Annual report year: 2011

Metangas kan blive en genvej til brintsamfundet
Angelidaki, I., Luo, G. & Lyhne, P. 2011 In : FIB - Forskning i Bioenergi, Brint & Brændselsceller. 37, p. 3-4
Research output: Research › Conference article – Annual report year: 2012

Micro-aerobic, anaerobic and two-stage condition for ethanol production by Enterobacter aerogenes from biodiesel-derived crude glycerol
Research output: Research › Conference article – Annual report year: 2011

Microwave pretreatment of rape straw for bioethanol production: Focus on energy efficiency
Lu, X., Xi, B., Zhang, Y. & Angelidaki, I. 2011 In : Bioresource Technology. 102, 17, p. 7937-7940
Nitrate as an Oxidant in the Cathode Chamber of a Microbial Fuel Cell for Both Power Generation and Nutrient Removal Purposes
Fang, C., Min, B. & Angelidaki, I. 2011 In : Applied Biochemistry and Biotechnology. 164, 4, p. 464-474
Research output: Research - peer-review › Journal article – Annual report year: 2011

Performance and microbial community analysis of two-stage process with extreme thermophilic hydrogen and thermophilic methane production from hydrolysate in UASB reactors
Kongjan, P., O-Thong, S. & Angelidaki, I. 2011 In : Bioresource Technology. 102, 5, p. 4028-4035
Research output: Research - peer-review › Journal article – Annual report year: 2011

Simultaneous organic carbon, nutrients removal and energy production in a photomicrobial fuel cell (PFC)
Zhang, Y., Noori, J. S. & Angelidaki, I. 2011 In : Energy & Environmental Science. 4, 10, p. 4340-4346
Research output: Research - peer-review › Journal article – Annual report year: 2011

Submersible microbial fuel cell for electricity production from sewage sludge
Zhang, Y., Olias, L. G., Kongjan, P. & Angelidaki, I. 2011 In : Water Science and Technology. 64, 1, p. 50-55
Research output: Research - peer-review › Journal article – Annual report year: 2011

Submersible microbial fuel cell sensor for monitoring microbial activity and BOD in groundwater: Focusing on impact of anodic biofilm on sensor applicability
Zhang, Y. & Angelidaki, I. 2011 In : Biotechnology and Bioengineering (Print). 108, 10, p. 2339-2347
Research output: Research - peer-review › Journal article – Annual report year: 2011

Thermophilic Biohydrogen Production
Research output: Research › Book chapter – Annual report year: 2011

Use of extremophilic bacteria for second generation bioethanol production
Research output: Research › Conference abstract for conference – Annual report year: 2012

Biogas production from food-processing industrial wastes by anaerobic digestion
Research output: Research › Ph.D. thesis – Annual report year: 2010

Biohydrogen production from sugar rich substrates using the dark fermentation process
Research output: Research › Ph.D. thesis – Annual report year: 2010

Improved anaerobic digestion of energy crops and agricultural residues
Research output: Research › Ph.D. thesis – Annual report year: 2010

Anaerobic digestion of maize focusing on variety, harvest time and pretreatment
Research output: Research - peer-review › Journal article – Annual report year: 2010

Biohydrogen production from wheat straw hydrolysate by dark fermentation using extreme thermophilic mixed culture
Research output: Research - peer-review › Journal article – Annual report year: 2010
Biorefinery concept as a sustainable way to produce energy and chemicals from agricultural products
Research output: Research › Conference abstract in proceedings – Annual report year: 2010

Comparative study of mechanical, hydrothermal, chemical and enzymatic treatments of digested biofibers to improve biogas production
Research output: Research - peer-review › Journal article – Annual report year: 2010

Effect of xylose and nutrients concentration on ethanol production by a newly isolated extreme thermophilic Thermoanaerobacter sp.
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Electricity Generation from Organic Matters in Biocatalyst-Based Microbial Fuel Cells (MFCs)
Min, B., Zhang, Y. & Angelidaki, I. 2010
Research output: Research - peer-review › Conference abstract for conference – Annual report year: 2010

Engineered heat treated methanogenic granules: A promising biotechnological approach for extreme thermophilic biohydrogen production
Research output: Research - peer-review › Journal article – Annual report year: 2010

Extreme thermophilic biohydrogen production from wheat straw hydrolysate using mixed culture fermentation: Effect of reactor configuration
Research output: Research - peer-review › Journal article – Annual report year: 2010

Long-chain fatty acids inhibition and adaptation process in anaerobic thermophilic digestion: Batch tests, microbial community structure and mathematical modelling
Research output: Research - peer-review › Journal article – Annual report year: 2010

Optimization of biogas production from wheat straw stillage in UASB reactor
Research output: Research - peer-review › Journal article – Annual report year: 2010

Possibilities of anaerobic digestion in the Arctic
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Production of bioethanol from wheat straw: An overview on pretreatment, hydrolysis and fermentation
Research output: Research - peer-review › Journal article – Annual report year: 2010

State indicators for monitoring the anaerobic digestion process
Research output: Research - peer-review › Journal article – Annual report year: 2010
Steam treatment of digested biofibers for increasing biogas production
Research output: Research - peer-review › Journal article – Annual report year: 2010

Submersible microbial fuel cell for electricity production from sewage sludge
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Systematic investigation of the effect of feedstock composition, and filamentous bacteria cells on foaming in manure anaerobic digestion systems
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Thermophilic anaerobic co-digestion of pretreated empty fruit bunches with palm oil mill effluent for efficient biogas production
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Xylose fermentation to biofuels (hydrogen and ethanol) by extreme thermophilic (70 C) mixed culture
Research output: Research - peer-review › Journal article – Annual report year: 2010

Anaerobic digestion of slaughterhouse by-products
Hejnfelt, A. & Angelidaki, I. 2009 In : Biomass & Bioenergy. 33, 8, p. 1046-1054
Research output: Research - peer-review › Journal article – Annual report year: 2009

Anammox for ammonia removal from pig manure effluents: Effect of organic matter content on process performance
Research output: Research - peer-review › Journal article – Annual report year: 2009

Research output: Research › Report – Annual report year: 2009

A strict anaerobic extreme thermophilic hydrogen-producing culture enriched from digested household waste
Research output: Research - peer-review › Journal article – Annual report year: 2009

Bioaugmentation of an upflow biofilm biohydrogen producing reactors under extreme-thermophilic condition (70 degree C) for improvement fo the hydrogen yield and start up time
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2009

Bioethanol, biohydrogen and biogas production from wheat straw in a biorefinery concept
Kaparaju, P. L-N., Serrano, M., Thomsen, A. B., Kongjan, P. & Angelidaki, I. 2009 In : Bioresource Technology. 100, 9, p. 2562-2568
Research output: Research - peer-review › Journal article – Annual report year: 2009
Biohydrogen production by anaerobic fermentation of waste: Final Project Report STVF 2058-03-0020
Research output: Research › Report – Annual report year: 2009

Biohydrogen production from xylose at extreme thermophilic temperatures (70 degrees C) by mixed culture fermentation
Kongjan, P., Min, B. & Angelidaki, I. 2009 In : Water Research. 43, 5, p. 1414-1424
Research output: Research - peer-review › Journal article – Annual report year: 2009

Biorefineries: converting biomass into valuable products
Research output: Research › Book chapter – Annual report year: 2009

Biorefinery for sustainable fuel production and high value added products from energy crops
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2009

Defining the biomethane potential (BMP) of solid organic wastes and energy crops: a proposed protocol for batch assays
Research output: Research - peer-review › Journal article – Annual report year: 2009

Effect of post-digestion temperature on serial CSTR biogas reactor performance
Research output: Research - peer-review › Journal article – Annual report year: 2009

Effect of pulse and continuous addition of oleate on microbial communities involved in anaerobic digestion process
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2009

Effect of reactor configuration on biogas production from wheat straw hydrolysate
Kaparaju, P. L-N., Serrano, M. & Angelidaki, I. 2009 In : Bioresource Technology. 100, 24, p. 6317-6323
Research output: Research - peer-review › Journal article – Annual report year: 2009

Engineered heat treated methanogenic granules (EHTG): a promising biotechnological approach for high rate extreme thermophilic (70 degrees C) biohydrogen production in expanded granular sludge bed (EGSB) reactors
Research output: Research - peer-review › Conference abstract in journal – Annual report year: 2009

Engineered heat treated methanogenic granules (ETHG): a promising biotechnological approach for high rate extreme thermophilic (70 degree C) biohydrogen production in expanded granular sludge bed (EGSB) reactor
Research output: Research - peer-review › Journal article – Annual report year: 2009

Ex-situ bioremediation of polycyclic aromatic hydrocarbons in sewage sludge
Research output: Research - peer-review › Journal article – Annual report year: 2009
Generation of Electricity and Analysis of Microbial Communities in Wheat Straw Biomass-Powered Microbial Fuel Cells
Zhang, Y., Min, B., Huang, L. & Angelidaki, I. 2009 In : Applied and Environmental Microbiology. 75, 11, p. 3389-3395
Research output: Research - peer-review › Journal article – Annual report year: 2009

High yield simultaneous biohydrogen and bioethanol production under extreme thermophilic (70 degree C) mixed culture environment
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2009

High yield simultaneous hydrogen and ethanol production under extreme-thermophilic (70 degrees C) mixed culture environment
Research output: Research - peer-review › Journal article – Annual report year: 2009

Microbial community structure of biohydrogen production process in extreme thermophilic conditions
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2009

Optimizing biogas production
Ellegaard, L. & Angelidaki, I. 2009 In : Forskning i Bioenergi. 30, p. 12-14
Research output: Research › Journal article – Annual report year: 2009

Optimisation of biogas production from manure through serial digestion: Lab-scale and pilot-scale studies
Kaparaju, P. L-N., Ellegaard, L. & Angelidaki, I. 2009 In : Bioresource Technology. 100, 2, p. 701-709
Research output: Research - peer-review › Journal article – Annual report year: 2009

Optimization of H2SO4-catalyzed hydrothermal pretreatment of rapeseed straw for bioconversion to ethanol: Focusing on pretreatment at high solids content
Xuebin, L., Zhang, Y. & Angelidaki, I. 2009 In : Bioresource Technology. 100, 12, p. 3048-3053
Research output: Research - peer-review › Journal article – Annual report year: 2009

Screening Escherichia coli, Enterococcus faecalis, and Clostridium perfringens as Indicator Organisms in Evaluating Pathogen-Reducing Capacity in Biogas Plants
Watcharasukarn, M., Kaparaju, P. L-N., Steyer, J-P., Krogfelt, K. A. & Angelidaki, I. 2009 In : Microbial Ecology. 58, 2, p. 221-230
Research output: Research - peer-review › Journal article – Annual report year: 2009

Serial CSTR digester configuration for improving biogas production from manure
Boe, K. & Angelidaki, I. 2009 In : Water Research. 43, 1, p. 166-172
Research output: Research - peer-review › Journal article – Annual report year: 2009

Strategies for recovering inhibition caused by long chain fatty acids on anaerobic thermophilic biogas reactors
Research output: Research - peer-review › Journal article – Annual report year: 2009

The effect of different substrates and humic acid on power generation in microbial fuel cell operation
Thygesen, A., Poulsen, F. W., Min, B., Angelidaki, I. & Thomsen, A. B. 2009 In : Bioresource Technology. 100, 3, p. 1186-1191
Research output: Research - peer-review › Journal article – Annual report year: 2009
Bio-hydrogen production from organic wastes and residues
Research output: Research › Ph.D. thesis – Annual report year: 2008

16S rRNA-targeted probes for specific detection of Thermoanaerobacterium spp., Thermoanaerobacterium thermosaccharolyticum, and Caldicellulosiruptor spp. by fluorescent in situ hybridization in biohydrogen producing systems
Research output: Research - peer-review › Journal article – Annual report year: 2008

Anaerobic biodegradation of fluoranthene under methanogenic conditions in presence of surface-active compounds
Research output: Research - peer-review › Journal article – Annual report year: 2008

Biofuel production: A new biorefinery for sustainable energy from crops: conversion of lignocellulose to bioethanol, biohydrogen and biomethane
Angelidaki, I. & Kongjan, P. 2008
Research output: Research › Conference abstract for conference – Annual report year: 2008

Biohydrogen production from glucose in upflow biofilm reactors with plastic carriers under extreme thermophilic conditions (70(degree)C)
Research output: Research - peer-review › Journal article – Annual report year: 2008

Biohydrogen production from household solid waste (HSW) at extreme-thermophilic temperature (70 degrees C) - Influence of pH and acetate concentration
Research output: Research - peer-review › Journal article – Annual report year: 2008

Biorefinery: The only way for sustainable biofuel production from energy crops; conversion of lignocellulose to bioethanol, biohydrogen and biomethane
Angelidaki, I. & Kongjan, P. 2008
Research output: Research › Conference abstract for conference – Annual report year: 2008

Codigestion of manure and industrial organic waste at centralized biogas plants: process imbalances and limitations
Research output: Research - peer-review › Journal article – Annual report year: 2008

Defining the biomethane potential (BMP) of solid organic wastes: a proposed protocol for batch assays
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Effect of humic acids on electricity generation integrated with xylose degradation in microbial fuel cells
Huang, L. & Angelidaki, I. 2008 In : Biotechnology and Bioengineering (Print). 100, 3, p. 413-422
Research output: Research - peer-review › Journal article – Annual report year: 2008
Effect of temperature and active biogas process on passive separation of digested manure
Research output: Research - peer-review › Journal article – Annual report year: 2008

Effects of mixing on methane production during thermophilic anaerobic digestion of manure: Lab-scale & pilot-scale studies
Research output: Research - peer-review › Journal article – Annual report year: 2008

Effects of pH and hydraulic retention time on hydrogen production versus methanogenesis during anaerobic fermentation of organic household solid waste under extreme-thermophilic temperature (70ºC)
Liu, D., Zeng, R. J. & Angelidaki, I. 2008 In : Biotechnology and Bioengineering (Print). 100, 6, p. 1108-1114
Research output: Research - peer-review › Journal article – Annual report year: 2008

Electricity production from xylose using a mediator-less microbial fuel cell
Research output: Research - peer-review › Journal article – Annual report year: 2008

Enrichment and adaptation of extreme-thermophilic (70o C) hydrogen producing bacteria to organic household solid waste by repeated batch cultivation
Research output: Research - peer-review › Journal article – Annual report year: 2008

High-rate continuous hydrogen production by Thermoanaerobacterium thermosaccharolyticum PSU-2 immobilized on heat-pretreated methanogenic granules
Research output: Research - peer-review › Journal article – Annual report year: 2008

Importance of temperature and anodic medium composition on microbial fuel cell (MFC) performance
Research output: Research - peer-review › Journal article – Annual report year: 2008

Influence of wastewater characteristics on methane potential in food-processing industry wastewaters
Research output: Research - peer-review › Journal article – Annual report year: 2008

Innovative microbial fuel cell for electricity production from anaerobic reactors
Min, B. & Angelidaki, I. 2008 In : Journal of Power Sources. 180, 1, p. 641-647
Research output: Research - peer-review › Journal article – Annual report year: 2008

Innovative process scheme for removal of organic matter, phosphorus and nitrogen from pig manure
Research output: Research - peer-review › Journal article – Annual report year: 2008

MICROBIAL FUEL CELL
Angelidaki, I. & Min, B. 2008 18 Sep 2008
Research output: Research › Patent – Annual report year: 2008

Microbial fuel cells with acetate, glucose and xylose using humic acid as mediator
Thygesen, A., Poulsen, F. W., Min, B., Angelidaki, I. & Thomsen, A. B. 2008
Research output: Research › Poster – Annual report year: 2008
Monitoring and control of the biogas process based on propionate concentration using online VFA measurement
Research output: Research - peer-review › Journal article – Annual report year: 2008

Strategies for optimizing recovery of the biogas process following ammonia inhibition
Research output: Research - peer-review › Journal article – Annual report year: 2008

Thermophilic fermentative hydrogen production by the newly isolated Thermoanaerobacterium thermosaccharolyticum PSU-2
Research output: Research - peer-review › Journal article – Annual report year: 2008

Anaerobic Biodegradation, Activity and Inhibition (ABAI) Task Group Meeting 9th to 10th October 2006, in Prague

Anaerobic biotechnological approaches for production of liquid energy carriers from biomass
Research output: Research - peer-review › Journal article – Annual report year: 2007

Anaerobic digestion of solid material: multidimensional modelling of continuous-flow reactor with non-uniform influent concentration distributions
Research output: Research - peer-review › Journal article – Annual report year: 2007

An innovative online VFA monitoring system for the anerobic process, based on headspace gas chromatography
Boe, K., Batstone, D. J. & Angelidaki, I. 2007 In: Biotechnology and Bioengineering. 96, 4, p. 712-721
Research output: Research - peer-review › Journal article – Annual report year: 2007

Biohydrogen production from glucose in upflow biofilm reactors with plastic carriers under hyperthermophilic condition (70ºC)
Research output: Research - peer-review › Poster – Annual report year: 2007

Biorefinery for sustainable biofuel production from energy crops; conversion of lignocellulose to bioethanol, biohydrogen and biomethane
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

Effect of post-treatments on biodegradability and methane recovery from fibres separated from thermophilically digested cow manure
Kaparaju, P. L-N. & Angelidaki, I. 2007
Research output: Research - peer-review › Poster – Annual report year: 2007

Effect of temperature and anodic medium on power generation in microbial fuel cells (MFCs)
Min, B., Román, O. B. & Angelidaki, I. 2007
Research output: Research - peer-review › Poster – Annual report year: 2007

Enrichment and adaptation of extreme-thermophilic (70ºC) H2 producing bacteria to organic household solid waste by repeated batch cultivations
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

Genetablering af biogasprocessen
Bangsø Nielsen, H. & Angelidaki, I. 2007 In : Forskning i Bioenergi. 4, 22, p. 10-13
Research output: Communication › Journal article – Annual report year: 2007

High-rate hydrogen production in up-flow anaerobic sludge blanket (UASB) using immobilized thermoanaerobacterium thermosaccharolylticum strain PSU-2 with treated methanogenic granules
Research output: Research - peer-review › Poster – Annual report year: 2007

Homoacetogenesis as the alternative pathway for H2 sink during thermophilic anaerobic degradation of butyrate under suppressed methanogenesis
Research output: Research - peer-review › Journal article – Annual report year: 2007

Monitoring and control of the biogas process based on propionate concentration using online VFA measurement
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

Optimization of biogas production by co-digesting whey with diluted poultry manure
Research output: Research - peer-review › Journal article – Annual report year: 2007

Optimization of biogas production from manure: Final project report EFP-04
Research output: Research - Report – Annual report year: 2007

Optimization of biogas production from olive-oil mill wastewater, by codigesting with diluted poultry-manure
Research output: Research - peer-review › Journal article – Annual report year: 2007

Re-establishing the biogas process
Research output: Research - peer-review › Journal article – Annual report year: 2007

Removal of residual organic matter, phosphates and ammonium from thermophilically digested pig manure
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

The development of biogas in Sweden and Denmark
Murto, M., Svensson, M., Christensson, K. & Angelidaki, I. 2007
Research output: Research - peer-review › Poster – Annual report year: 2007

Online monitoring and control of the biogas process
Research output: Research › Ph.D. thesis – Annual report year: 2006
Acetate oxidation is the dominant methanogenic pathway from acetate in the absence of Methanosaetaceae
Research output: Research - peer-review › Journal article – Annual report year: 2006

Biohydrogen production in granular up-flow anaerobic sludge blanket (UASB) reactors with mixed cultures under hyper-thermophilic temperature (70 degree C)
Kotsopoulos, T. A., Zeng, R. J. & Angelidaki, I. 2006 In : Biotechnology and Bioengineering. 94, 2, p. 296-302
Research output: Research - peer-review › Journal article – Annual report year: 2006

Enhanced biogas recovery by applying post-digestion in large-scale centralized biogas plants
Angelidaki, I., Hejnfelt, A. & Ellegaard, L. 2006 In : Water Science and Technology. 54, 2, p. 237-244
Research output: Research - peer-review › Journal article – Annual report year: 2006

Evaluation of different lab-scale configurations for pig manure treatment (anaerobic codigestion, removal of organic matter and nutrients): A sustainable solution for pig manure treatment: Environmental compliance with the Integrated Pollution Prevention and Control directive (PIGMAN)
Research output: Research › Report – Annual report year: 2006

Research output: Research › Conference abstract in proceedings – Annual report year: 2006

H2/CO2-aetogenesis pathway in anaerobic butyrate degradation with digested manure as inoculum at 55 degree C
Research output: Research › Conference abstract in proceedings – Annual report year: 2006

Hydrogen and methane production from household solid waste in the two-stage fermentation process
Research output: Research - peer-review › Journal article – Annual report year: 2006

Identifiability study of the proteins degradation model, based on ADM1, using simultaneous batch experiments
Research output: Research - peer-review › Journal article – Annual report year: 2006

Lessons learnt from 15 years of ICA in anaerobic digesters
Research output: Research - peer-review › Journal article – Annual report year: 2006

Operational strategies for thermophilic anaerobic digestion of organic fraction of municipal solid waste in continuously stirred tank reactors
Angelidaki, I., Cui, J., Chen, X. & Kaparakou, P. L-N. 2006 In : Environmental Technology. 27, 8, p. 855-861
Research output: Research - peer-review › Journal article – Annual report year: 2006

Optimering af biogasprocessen
Research output: Communication › Journal article – Annual report year: 2006

Stabilitet og udrådningseffektivitet for danske biogasanlæg
Research output: Research › Report – Annual report year: 2006
Strict anaerobic hyperthermophilic hydrogen producing culture enriched from digested household waste
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2006

Thermophilic anaerobic digestion of source-sorted organic fraction of household municipal solid waste: start-up procedure for continuously stirred tank reactor
Research output: Research - peer-review › Journal article – Annual report year: 2006

Anaerobic degradation of solid material: Importance of initiation centers for methanogenesis, mixing intensity, and 2D distributed model
Vavilin, V. A. & Angelidaki, I. 2005 In : *Biotechnology and Bioengineering (Print)*. 89, 1, p. 113-122
Research output: Research - peer-review › Journal article – Annual report year: 2005

Anaerobic degradation of urban waste
Research output: Research › Article in proceedings – Annual report year: 2005

Biogasreaktorer i serie kan give op til 15 procent mere gas
Research output: Communication › Journal article – Annual report year: 2005

Development of new ecotoxicity tests adapted to organic wastes to be recycled in agriculture
Research output: Research › Poster – Annual report year: 2005

Effect of operating conditions and reactor configuration on efficiency of full-scale biogas plants
Research output: Research - peer-review › Conference article – Annual report year: 2005

Effects of process stability on anaerobic biodegradation of LAS in UASB reactors
Christiansen, T. L., Toräng, L., Batstone, D. J., Schmidt, J. E. & Angelidaki, I. 2005 In : *Biotechnology and Bioengineering (Print)*. 89, 7, p. 759-765
Research output: Research - peer-review › Journal article – Annual report year: 2005

Hydrogen and methane production from household solid waste in the two-stage fermentation process
Lui, D. W., Liu, D. P., Zeng, R. J. & Angelidaki, I. 2005
Research output: Research - peer-review › Poster – Annual report year: 2005

Identifiability study of the proteins degradation model, based on ADM1, using simultaneous batch experiments
Research output: Research › Article in proceedings – Annual report year: 2005

Influence of environmental conditions on methanogenic compositions in anaerobic biogas reactors
Research output: Research - peer-review › Journal article – Annual report year: 2005

Investigation of post digestion in large scale centralized biogas plants
Angelidaki, I., Hejnfeilt, A. & Ellegaard, L. 2005
Research output: Research - peer-review › Poster – Annual report year: 2005
Investigation of post digestion in large scale centralized biogas plants: No. O604
Research output: Research › Article in proceedings – Annual report year: 2005

Modeling of thermophilic anaerobic digestion of sorted household solid waste
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

Online headspace chromatographic method for measuring VFA in biogas reactor
Research output: Research - peer-review › Journal article – Annual report year: 2005

Operational strategies for thermophilic anaerobic digestion of organic fraction of municipal solid waste in continuously stirred tank reactors
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

Optimisation of serial-CSTR biogas reactors using modeling by ADM1
Research output: Research - peer-review › Article in proceedings – Annual report year: 2005

Start up of UASB system for hydrogen production with enriched cultures at hyper thermophilic conditions (70 gr. C)
Kotsopoulos, T. H., Zeng, R. J., Siriwongrungson, V. & Angelidaki, I. 2005
Research output: Research - peer-review › Poster – Annual report year: 2005

Strategies for changing temperature from mesophilic to thermophilic conditions in anaerobic CSTR reactors treating sewage sludge
Research output: Research - peer-review › Journal article – Annual report year: 2005

Anaerobic bioprocessing of sewage sludge, focusing on degradation of linear alkylbenzene sulfonates (LAS)
Research output: Research - peer-review › Journal article – Annual report year: 2004

Anaerobic degradation of phthalic acid esters in sewage sludge
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Application of anaerobic digestion modeling
Batstone, D. J. & Angelidaki, I. 2004 In : Ecological Engineering and Environment Protection. 1, p. 44-45
Research output: Research › Journal article – Annual report year: 2004

Assessment of the anaerobic biodegradability of macropollutants
Angelidaki, I. & Sanders, W. 2004 In : Reviews in Environmental Science and Biotechnology. 3, 2, p. 117-129
Research output: Research - peer-review › Journal article – Annual report year: 2004
Bio-hydrogen production by anaerobic fermentation of waste
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Effect of operating conditions and reactor configuration on efficiency of full-scale biogas plants
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Improved nitrogen removal in upflow anaerobic sludge blanket (UASB) reactors by incorporation of Anammox bacteria into the granular sludge
Schmidt, J. E., Batstone, D. J. & Angelidaki, I. 2004 In : Water Science and Technology. 49, 11-12, p. 69-76
Research output: Research - peer-review › Journal article – Annual report year: 2004

Method for determination of methane potentials of solid organic waste
Research output: Research - peer-review › Journal article – Annual report year: 2004

Nedbrydning af LAS under anaerobe forhold
Research output: Research › Journal article – Annual report year: 2004

Online headspace chromatographic method for measuring VFA in biogas reactor
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Optimal strategy for changing temperature from mesophilic to thermophilic conditions in CSTR reactors treating sewage sludge
Research output: Research › Article in proceedings – Annual report year: 2004

Removal of polycyclic aromatic hydrocarbons (PAHs) from sewage sludge by anaerobic degradation
Christensen, N., Batstone, D. J., Angelidaki, I. & Schmidt, J. E. 2004 In : Water Science and Technology. 50, 9, p. 237-244
Research output: Research - peer-review › Journal article – Annual report year: 2004

Sewage sludge for safe recycling on agricultural land: biowaste
Research output: Research › Article in proceedings – Annual report year: 2004

Stabilitet og udrådningseffektivitet for danske biogasanlæg
Research output: Research › Report – Annual report year: 2004

The global role of anaerobic digestion through various governmental waste and energy sustainability policies
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004
Monitoring and control of anaerobic reactors
Research output: Research - peer-review › Book chapter – Annual report year: 2003

Parameter identification of thermophilic anaerobic degradation of valerate
Research output: Research - peer-review › Conference article – Annual report year: 2003

Process stability in laboratory continuous stirred tank reactors affect anaerobic degradation of LAS
Research output: Research - peer-review › Article in proceedings – Annual report year: 2003

Traditional and innovative ways for treatment of municipal wastewater
Schmidt, J. E., Fitsios, E. & Angelidaki, I. 2003 In : Advances in Water Pollution Research. 4, p. 1-12
Research output: Research › Journal article – Annual report year: 2003

Anaerobic biodegradability of macropollutants
Research output: Research › Article in proceedings – Annual report year: 2002

Anaerobic biodegradation of spent sulphite liquor in a UASB reactor
Jantsch, T. G., Angelidaki, I., Schmidt, J. E., Braña de Hvidsten, B. E. & Ahring, B. K. 2002 In : Bioresource Technology. 84, 1, p. 15-20
Research output: Research - peer-review › Journal article – Annual report year: 2002

Anaerobic digestion in Denmark: Past, present and future
Angelidaki, I. & Ellegaard, L. 2002 Anaerobic digestion for sustainability in waste (water) treatment and re-use: Proceedings of 7th FAO/SREN-Workshop, 19-22 May 2002, Moscow, Russia. Moscow: Department of Chemical Enzymology, Chemistry Faculty, Moscow State University, p. 129-138
Research output: Research - peer-review › Article in proceedings – Annual report year: 2002

Anaerobic digestion model No. 1 (ADM1)
Research output: Research - peer-review › Book – Annual report year: 2002

Anaerobic digestion of olive oil mill effluents together with swine manure in UASB reactors
Research output: Research - peer-review › Journal article – Annual report year: 2002

Anaerobic treatment of sludge: focusing on reduction of LAS concentration in sludge
Haagensen, F., Mogensen, A. S., Angelidaki, I. & Ahring, B. K. 2002 In : Water Science and Technology. 46, 10, p. 159-165
Research output: Research - peer-review › Journal article – Annual report year: 2002
An innovative process for treatment of municipal wastewater with superior characteristics compared to traditional technologies
Research output: Research - peer-review › Article in proceedings – Annual report year: 2002

A novel in-situ sampling and VFA sensor technique for anaerobic systems
Research output: Research - peer-review › Journal article – Annual report year: 2002

Co-digestion of the organic fraction of municipal waste with other waste types
Research output: Research - peer-review › Book chapter – Annual report year: 2002

Innovative wastewater treatment process with reduced energy consumption and regeneration of nutrients
Schmidt, J. E., Fitsios, E. & Angelidaki, I. 2002
Research output: Research › Poster – Annual report year: 2002

New reactor configurations for optimised anaerobic treatment of slurry waste
Angelidaki, I. & Ellegaard, L. 2002
Research output: Research › Poster – Annual report year: 2002

Parameter identification of thermophilic anaerobic degradation of valerate
Research output: Research › Article in proceedings – Annual report year: 2002

Parameter identification of thermophilic anaerobic degradation of valerate
Research output: Research › Article in proceedings – Annual report year: 2002

The IWA Anaerobic digestion model no 1. (ADM1)
Research output: Research - peer-review › Journal article – Annual report year: 2002

Anaerobic digestion of organic fraction of municipal solid waste with recirculation of process water
Research output: Research - peer-review › Article in proceedings – Annual report year: 2001

Anaerobic Digestion of the Organic Fraction of Municipal Solid Waste With Recirculation of Process Water
Hartmann, H., Angelidaki, I. & Ahring, B. K. 2001 9th World Congress on Anaerobic Digestion. p. 301-304
Research output: Research - peer-review › Article in proceedings – Annual report year: 2001
Dynamic responses of the anaerobic process to pulses of acetate and propionate
Research output: Research - peer-review › Article in proceedings – Annual report year: 2001

Mechanisms of oleate inhibition of the anaerobic degradation in upflow anaerobic sludge blanket (UASB) reactors
Research output: Research - peer-review › Article in proceedings – Annual report year: 2001

The effects of sustainable waste management policies on anaerobic digestion of organic solid waste
Research output: Research › Article in proceedings – Annual report year: 2001

Anaerobic transformation of LAS in continuous stirred tank reactors treating sewage sludge
Angelidaki, I., Haagensen, F. & Ahring, B. K. 2000 5th World Surfactants Congress. p. 1551-1557
Research output: Research - peer-review › Article in proceedings – Annual report year: 2000

Degradation of organic contaminants found in organic waste
Research output: Research - peer-review › Journal article – Annual report year: 2000

Increase of anaerobic degradation of particulate organic matter in full-scale biogas plants by mechanical maceration
Research output: Research - peer-review › Journal article – Annual report year: 2000

Linear alkylbenzene sulfonates: inhibition effect on acetate and propionate degradation during anaerobic digestion
Research output: Research - peer-review › Article in proceedings – Annual report year: 2000

Methods for increasing the biogas potential from the recalcitrant organic matter contained in manure
Research output: Research - peer-review › Conference article – Annual report year: 2000

A comprehensive model of anaerobic bioconversion of complex substrates to biogas
Research output: Research - peer-review › Journal article – Annual report year: 1999

Anaerobic co-digestion of olive mill effluents together with different wastes
Research output: Research - peer-review › Book chapter – Annual report year: 1999

Degradation of organic contaminants found in organic sludge
Research output: Research - peer-review › Article in proceedings – Annual report year: 1999

Improved digestion of swine manure in thermophilic biogas reactors
Research output: Research - peer-review › Journal article – Annual report year: 1999
**Anaerobic digestion of swine manure: Inhibition by ammonia**
Research output: Research - peer-review › Journal article – Annual report year: 1998

**An automatic system for simultaneous monitoring of gas evolution in multiple closed vessels**
Angelidaki, I., Schmidt, J. E., Ellegaard, L. & Ahring, B. K. 1998 In : Journal of Microbiological Methods. 33, p. 93-100
Research output: Research - peer-review › Journal article – Annual report year: 1998

**An automatic system for simultaneous monitoring of gas evolution in multiple closed vessels**
Angelidaki, I., Schmidt, J. E., Ellegaard, L. & Ahring, B. K. 1998 In : Journal of Microbiological Methods. 33, p. 93-100
Research output: Research - peer-review › Journal article – Annual report year: 1998

**Bioforgasning: proces, Kapitel 4.11**
Research output: Education › Book chapter – Annual report year: 1998

**Bioforgasning: teknologi, Kapitel 4.12**
Research output: Education › Book chapter – Annual report year: 1998

**Biogasprocessen - styr på mikrobiologien**
Research output: Research › Journal article – Annual report year: 1998

**Bioprocessing of organic waste for organic contaminants**
Research output: Research - peer-review › Book chapter – Annual report year: 1998

**Computerized automatic system for continuous monitoring of gas production in closed systems**
Angelidaki, I., Schmidt, J. E., Ellegaard, L. & Ahring, B. K. 1998 In : Journal of Microbiological Methods. 33, p. 93-100
Research output: Research - peer-review › Journal article – Annual report year: 1998

**Matematisk model for dynamisk simulering af den anaerobe biogas proces**
Angelidaki, I., Ellegaard, L. & Ahring, B. K. 1998 Technical University of Denmark (DTU).
Research output: Research - peer-review › Report – Annual report year: 1998

**Methods for increasing the biogas potential from the recalcitrant organic matter contained in manure**
Research output: Research - peer-review › Article in proceedings – Annual report year: 1998

**Metoder til forøgelse af biogasudbyttet fra de tungt omsættelige dele af det organiske stof i gylle og undersøgelser over svinegyllens udrådningsegenskaber**
Angelidaki, I. & Ahring, B. K. 1998 Technical University of Denmark (DTU).
Research output: Research - peer-review › Report – Annual report year: 1998

**A mathematical model for simulation of anaerobic codigestion: Supported by grants from the energy research programme from the Danish Energy Ministry**
Research output: Research - peer-review › Report – Annual report year: 1996

**Codigestion of manure with organic industrial waste. Abstract**
Degradation of lipid containing organic industrial waste
Research output: Research - peer-review › Article in proceedings – Annual report year: 1996

Modellering og regulering af biogasprocessen
Research output: Research - peer-review › Book – Annual report year: 1996

Utilization of different wastes in biogas plants
Research output: Research - peer-review › Article in proceedings – Annual report year: 1996

Establishment and Characterization of an Anaerobic Thermophilic (55 degrees C) Enrichment Culture Degrading Long-Chain Fatty Acids
Angelidaki, I. & Ahring, B. K. 1995 In : Applied and Environmental Microbiology. 61, 6, p. 2442-2445
Research output: Research - peer-review › Journal article – Annual report year: 1995

Isomerization of n- and i-butyrate in Anaerobic Methanogenic Systems
Research output: Research - peer-review › Journal article – Annual report year: 1995

Volatile Fatty Acids as Indicators of Process Imbalance in Anaerobic Digestors
Ahring, B. K., Sandberg, M. & Angelidaki, I. 1995 In : Applied Microbiology and Biotechnology. 43, p. 559-565
Research output: Research - peer-review › Journal article – Annual report year: 1995

A Mathematical Model for Dynamic Simulation of Anaerobic Digestion of Complex Substrates: Focusing on Ammonia Inhibition
Angelidaki, I., Ellegaard, L. & Ahring, B. K. 1993 In : Biotechnology and Bioengineering (Print). 42, p. 159-166
Research output: Research - peer-review › Journal article – Annual report year: 1993

Projects:

EcoFuel: Boosting biomass derived syngas-to-biofuels conversion with microbial electrochemical fermentation
Zhang, Y. & Angelidaki, I.
01/07/2017 → 01/07/2020
Project: Research

Bioinorganic artificial photosynthesis of single cell protein from carbon dioxide.
Xu, M., Angelidaki, I. & Zhang, Y.
Privatist
01/11/2017 → 31/10/2020
Project: PhD

Biological production of n-Hexanol
Yang, X., Angelidaki, I. & Kougias, P.
Stipendie fra udlandet
01/12/2017 → 30/11/2020
Project: PhD

Microbial electrochemistry meet UV: For effektive degradation of organic matter
Zou, R., Angelidaki, I. & Zhang, Y.
Stipendie fra udlandet
01/12/2017 → 30/11/2020
Powdered bioaugmentation inocula to alleviate ammonia toxicity in anaerobic digesters
Yan, M., Angelidaki, I. & Fotidis, I.
Privatist
01/11/2017 → 31/10/2020
Project: PhD

Ex-situ biogas upgrading through biologically mediated CO2 hydrogenation
Peprah, M., Angelidaki, I. & Kougias, P.
Offentlig finansiering
01/11/2017 → 31/10/2020
Project: PhD

Miljøvurdering af organisk husholdningsaffald
Hansen, T. L., Christensen, T. H., Angelidaki, I., Kjeldsen, P., Magid, J. & Stentiford, E. I.
DTU-lønnet stipendie
01/01/2002 → 14/11/2005
Project: PhD

On-line styring og regularering af biogasanlæg
Pind, P. F., Ahring, B. K., Angelidaki, I., Jørgensen, S. B., Lyberatos, G. & Mattiasson, B.
DTU-Su Stipendium, Eksperiment
01/08/1997 → 18/06/2001
Project: PhD

Computational modelling and simulation of anaerobic biomass conversion to biogas, focusing on the effects of substrate characterisation, solid-liquid- gas phase interactions and microbial growth dynamics
Kovalovszki, A., Angelidaki, I. & Alvarado-Morales, M.
Institut stipendie (DTU)
15/09/2016 → 14/01/2020
Project: PhD

Innovative bioaugmentation strategies to tackle ammonia inhibition in anaerobic digestion process
Tian, H., Angelidaki, I., Fotidis, I., Kougias, P., Schmidt, J. E., Wang, A. & Kotsopoulos, T.
Stipendie fra udlandet
01/10/2015 → 30/09/2018
Project: PhD

Innovative-bio-electrochemical-anaerobic-digestion coupled system for ammonia recovery and energy production from food-waste residues
Zhao, N., Angelidaki, I. & Zhang, Y.
Stipendie fra udlandet
01/10/2015 → 28/02/2019
Project: PhD

Innovative microbial electrolysis cell-anaerobic digestion coupled system for ammonia recovery and energy production from ammonia-rich residues
Li, X., Angelidaki, I., Zhang, Y., Kougias, P., Thomsen, A. B. & Verstraete, W.
Stipendie fra udlandet
15/12/2014 → 18/04/2018
Project: PhD

Deciphering the microbial ecology in biogas reactors for optimizing the anaerobic digestion process
Institut stipendie (DTU)
01/12/2014 → 28/02/2018
Project: PhD
Bioelectrochemical-anaerobic digestion-coupled system for simultaneous recovery and bioenergy production
Stipendie fra udlanget
15/10/2014 → 20/12/2017
Project: PhD

Sustainable Production of Third Generation (3G) Bioenergy Carriers and High Value Aquatic Fish Feed from Macroalgae
D'Este, M., Angelidaki, I., Alvarado-Morales, M., Fotidis, I., Thomsen, A. B. & Nakashimada, Y.
Samfinansieret - Andet
01/01/2014 → 30/08/2017
Project: PhD

Improved Anaerobic Digestion of Energy Crops
Bruni, E., Angelidaki, I., Jensen, A. P., Baun, A., Mattiasson, B. & Norddahl, B.
ErhvervsPhD-ordningen VTU
01/12/2006 → 23/06/2010
Project: PhD

Microbial Fuel Cell - used in direct Conversion of Lignocellulosic Waste to Energy
Fang, C., Angelidaki, I., Boe, K., Karakashev, D. B., Mattiasson, B. & Norddahl, B.
Privatist
01/07/2007 → 19/01/2011
Project: PhD

Combined Biohydrogen Biomethane Production from Waste
Liu, D., Angelidaki, I., Min, B., Zeng, R. J., Schmidt, J. E., Niel, E. W. J. V. & Svensson, B. H.
Privatist
01/10/2004 → 04/07/2008
Project: PhD

Kinetic Model Development of Anaerobic Fermentation for Hydrogen Production
Kongjan, P., Angelidaki, I., Min, B., Karakashev, D. B., Norddahl, B. & Prasertsan, P.
Stipendie fra udlanget
25/08/2010 → 25/08/2010
Project: PhD

On-line Monitoring and Control of the Biogas Process
Boe, K., Angelidaki, I., Batstone, D. J., Schmidt, J. E. & Norddahl, B.
DTU-lønnet stipendie
01/10/2002 → 30/06/2006
Project: PhD

Production of Biogas and Bioethanol from Organic Raw Materials
Oleskowicz-Popiel, P., Schmidt, J. E., Thomsen, A. B., Angelidaki, I., Björnsson, L. & Norddahl, B.
Forskningrådsnævn
01/09/2007 → 30/09/2010
Project: PhD

Optimization of bio-hydrogen production from carbohydrate rich wastes by extreme thermophilic microorganisms
Tomás, A. F., Angelidaki, I., Karakashev, D. B., Dechesne, A., Norddahl, B. & Verstraete, W.
Stipendie fra udlanget
01/11/2008 → 03/07/2013
Project: PhD

Algal biofilter optimization near fish farm
Institut stipendie (DTU) Samf.
01/09/2012 → 29/02/2016
Project: PhD

Innovative biogas process for ammonia-rich wastes
Stipendie fra udlændet
01/11/2012 → 30/06/2016
Project: PhD

Biogas enhancement and upgrading
Bassani, I., Angelidaki, I., Kougias, P., Jensen, M. M., Guwy, A. & Norddahl, B.
Samfinansieret - Andet
15/12/2013 → 06/06/2017
Project: PhD

Development of new microbial fuel cell configuration for optimization of electricity production with simultaneous wastewater treatment
Zhang, Y., Angelidaki, I., Karakashev, D. B., Norddahl, B. & Verstraete, W.
Institut/centerfinansieret
01/10/2009 → 30/09/2012
Project: PhD

Sustainable Production and Utilization of Microalgae for industrial wastewater treatment
Institut stipendie (DTU) Samf.
01/06/2012 → 30/08/2017
Project: PhD

Biorefinery
Institut stipendie (DTU) Samf.
15/12/2011 → 26/01/2015
Project: PhD

New technology for an efficient utilization of meadow grass in biogas reactor
Tsapekos, P., Angelidaki, I., Kougias, P., Dechesne, A., Malpei, F. & Norddahl, B.
Samfinansieret - Andet
01/12/2013 → 15/03/2017
Project: PhD

Sustainable Production and Utilization of Microalgae
Institut stipendie (DTU) Samf.
01/04/2012 → 21/04/2016
Project: PhD

Environmental Assessment of the Management of Garden and Yard Waste
Boldrin, A., Christensen, T. H., Angelidaki, I., Jensen, L. S. & Kranert, M.
1/3 DTU-stip, 2/3 FUR/andet
01/03/2006 → 23/09/2009
Project: PhD

Kombiopdræt: Kombinationsopdræt af havbrugfisk, tang, muslinger til foder og konsum
Holdt, S. L., Silva Marinho, G. & Angelidaki, I.
GUDP
15/12/2011 → 01/04/2015
Project: Research
MicrobStopNH3: Innovative bioaugmentation strategies to tackle ammonia inhibition in an-aerobic digestion process
Fotidis, I., Angelidaki, I. & De Francisci, D.
01/08/2015 → 31/07/2018
Project: Research

ElectroAD: Innovative bioelectrochemical-anaerobic-digestion coupled system for ammonia recovery and energy production from ammonia-rich residues
Zhang, Y., Angelidaki, I. & Fotidis, I.
01/10/2013 → 30/09/2017
Project: Research

ECO-India: Energy-efficient, community- based water and wastewater-treatment systems for deployment in India
Fotidis, I. & Angelidaki, I.
18/04/2012 → 18/04/2015
Project: Research

SYMBIO: Integration of biomass and wind power for biogas enhancement and upgrading via hydrogen assisted anaerobic digestion
Kougias, P., Luo, G. & Angelidaki, I.
01/07/2013 → ...
Project: Research

Foaming problems in biogas plants
Kougias, P., Boe, K. & Angelidaki, I.
01/10/2009 → 30/09/2014
Project: Research

ElectroAD1: A novel method to recover ammonia from biogas plants
Zhang, Y. & Angelidaki, I.
01/04/2013 → 31/10/2013
Project: Research

An innovative process for simultaneous utilization of hydrogen and in-situ biogas upgrading
Luo, G. & Angelidaki, I.
01/07/2012 → 30/06/2015
Project: Research

FISH4: FISCH4 – Fish Feed from Food Waste
Angelidaki, I.
Ukendt
01/01/2013 → 31/12/2017
Project: Research

KOMBI-cultivation: KOMBI-cultivation: Integrated aquaculture of fish, seaweed, and mussels for feed and food
Angelidaki, I.
Ukendt
01/01/2012 → 31/03/2015
Project: Research

SAO-Dom: Innovative biogas process for treating ammonia-rich wastes
Angelidaki, I.
Ukendt
01/01/2012 → 31/12/2015
Project: Research
MAB: The MacroAlgae Biorefinery
Angelidaki, I. & Karakashev, D. B.
Ukendt
01/01/2012 → 31/12/2015
Project: Research

JuniorOchre: Concept proof of usability of ocher as a source of iron in wastewater treatment
Mikkelsen, P. S., Angelidaki, I. & Andersen, H. R.
Ukendt
15/03/2010 → 01/02/2011
Project: Research

Thalis: Thalis
Angelidaki, I. & Andersen, H. R.
Ukendt
01/07/2010 → 30/06/2014
Project: Research

Titration-VFA: Optimization of a titration method for monitoring of VFA
Angelidaki, I. & Boe, K.
Ukendt
01/11/2009 → 31/10/2010
Project: Research

Ammonia: Optimal digestion of high ammonia containing wastes
Angelidaki, I. & Karakashev, D. B.
Ukendt
01/01/2010 → 31/12/2011
Project: Research

SMFC: Submersible Microbial Fuel Cell (SMFC) for electricity production from wastewater
Angelidaki, I.
Ukendt
01/01/2010 → 31/12/2012
Project: Research

946: Flow cytometer and UV-laser for Confocal Laser Scanning Microscope
Albrechtsen, H., Henze, M., Jakobsen, R., Angelidaki, I., Smets, B. F. & Dechesne, A.
Ukendt
02/03/2009 → 31/12/2009
Project: Research

958: High rate algal biomass production for food, feed, biochemicals and biofuels
Angelidaki, I. & Karakashev, D. B.
Ukendt
01/01/2010 → 31/12/2012
Project: Research

AQUATERRE: Integrated European Network for biomass and waste reutilisation for Bio-products
Angelidaki, I. & Karakashev, D. B.
Ukendt
01/01/2008 → 01/01/2010
Project: Research

EnGreenCIE: INTERREG IVC
Angelidaki, I. & Karakashev, D. B.
Ukendt
01/01/2009 → 31/12/2011
ForskEL: Fuldskala demonstration og dokumentation mv. af seriedrift på gyllebaseret biogasfællesanlæg (Lemvig Biogas)
Angelidaki, I.
Ukendt
01/04/2008 → 01/06/2009
Project: Research

903: Biorefinery for sustainable Reliable Economical Fuel production from energy crops. Second call.
Angelidaki, I. & Karakashev, D. B.
Ukendt
01/01/2010 → 31/12/2013
Project: Research

896: START-funding II. Preparation of EU project proposal "Biorefinery for sustainable Reliable Economical Fuel production from energy crops" (Acronym: BioREF)
Angelidaki, I., Boe, K. & Karakashev, D. B.
Ukendt
10/10/2008 → 02/12/2008
Project: Research

CLEANWASTE: Clean and environmentally friendly animal waste technologies for fertilizer and energy production
Angelidaki, I.
Ukendt
01/04/2009 → 31/03/2013
Project: Research

874: Electricity assisted biological hydrogen production using single chamber membrane-free anaerobic reactor
Angelidaki, I. & Karakashev, D. B.
Ukendt
01/01/2009 → 31/12/2011
Project: Research

876: Highly effective conversion of C5 and C6 sugars to ethanol by new yield type ethanol-tolerant microorganisms: challenge for sustainable 2nd generation bioethanol production from lignocellulose
Angelidaki, I. & Karakashev, D. B.
Ukendt
01/01/2009 → 31/12/2011
Project: Research

Foaming: Foaming problems in biogas plants
Angelidaki, I., Boe, K. & Karakashev, D. B.
Ukendt
01/10/2009 → 30/09/2012
Project: Research

BIOREF: Biorefinery for sustainable Reliable Economical Fuel production from energy crops. First call.
Angelidaki, I. & Karakashev, D. B.
Ukendt
01/01/2009 → 31/12/2011
Project: Research

796: START-funding I. Preparation of international proposal"Biorefinery for sustainable Reliable Economical Fuel production from energy crops" (Acronym: BioREF)
Angelidaki, I. & Karakashev, D. B.
Ukendt
01/11/2007 → 18/02/2008
Project: Research
761: Optimization of Microbial Fuel Cells via Directed Bio-Electricigenesis
Angelidaki, I. & Smets, B. F.
Ukendt
01/09/2007 → 31/08/2009
Project: Research

777: Biorefinery for Fuel production from energy crops
Angelidaki, I.
Ukendt
01/01/2007 → 31/12/2010
Project: Research

MicrosConditions: Microbial community structure related to process conditions: a challenge for improving performance of anaerobic digesters
Angelidaki, I. & Karakashev, D. B.
Ukendt
01/01/2008 → 31/12/2010
Project: Research

356: SAFEWATER. Hazardous chemicals and micro-organisms in urban water management.
Ukendt
01/01/2003 → 02/01/2003
Project: Research

338: Start-programmet. Improved monitoring and control of the biogas process for reliable efficient and cost-effective energy production.
Angelidaki, I.
Ukendt
20/01/2003 → 20/03/2003
Project: Research

287: Development bioprocesses for handling and recycling seasonal industrial wastewaters.
Schmidt, J. E. & Angelidaki, I.
Ukendt
01/07/2002 → 01/08/2002
Project: Research

Schmidt, J. E., Angelidaki, I. & Karakashev, D. B.
Forsk. EU - Rammeprogram
01/01/2006 → 31/12/2007
Project: Research

Dansk-Indisk samarbejde: Maximization of gaseous energy recovery by simultaneous biohydrogen production and biomethanation.
Angelidaki, I.
Ukendt
03/06/2006 → 31/12/2007
Project: Research

Mikrobiel fysiologi og økologi.
Ahring, B. K., Hofman-Bang, H. J. P., Angelidaki, I. & Molin, S.
Ukendt
01/01/1996 → 01/05/2001
Project: Research
MFC-Risø: MFC-Risø. Microbial fuel cell - used in direct conversion of lignocellulosic waste to energy.
Angelidaki, I.
Ukendt
01/01/2006 → 31/12/2008
Project: Research

PSO - VFA: PSO-VFA. Anwendung von online VFA-sensor for to kontrollere og optimere anaerob processen for lav omkostnings biogas fra gyllen.
Angelidaki, I. & Boe, K.
Ukendt
01/03/2006 → 29/02/2008
Project: Research

563: Indsamling og systematisering af den eksisterende viden om gaspotentialen i forskellige typer biomasse og afgrøder.
Angelidaki, I. & Hejnfelt, A.
Ukendt
01/11/2004 → 30/04/2005
Project: Research

561: Udvikling af innovativ proces for udyttelse af biomasse til produktion af brint og biogas
Angelidaki, I.
Sam.arb.aftaler, Private danske - Fonde
21/03/2005 → 31/01/2006
Project: Research

CONTROL-AD4H2: CONTROL-AD4H2. Control of Anaerobic Digestion Processesfor Optimisation of Hydrogen Production
Angelidaki, I. & Steyer, J.
Forsk. EU - Andre EU-midler
01/02/2005 → 31/01/2006
Project: Research

EFP05-Biogas-ustabilitet: Process imbalance in biogas plants and strategies for prevention and reestablishment of process stability. EFP05
Angelidaki, I.
Forskningsprojekter - Miljø- og Energiministeriet
01/03/2005 → 01/05/2008
Project: Research

BioHydro: Hydrogen from biomass. START-programme.
Angelidaki, I.
Forskningsrådene - STVF
01/10/2004 → 01/05/2005
Project: Research

415: Biogas Forum Øresund. (INTERREG IIIA Øresundsregionen)
Angelidaki, I., Boe, K. & Hejnfelt, A.
Forsk. EU - Andre EU-midler
01/03/2004 → 28/06/2006
Project: Research

397: Monitoring of the anaerobic biogas processby on-line VFA measurement
Angelidaki, I., Boe, K. & Batstone, D. J.
Ukendt
01/10/2002 → 31/12/2005
Project: Research
Angelidaki, I. & Kaparaju, P. L.
Ukendt
01/08/2004 → 31/12/2007
Project: Research

BioH2: Bio-hydrogen production by anaerobic fermentation of waste
Angelidaki, I., Zeng, R. J. & Liu, D.
Ukendt
01/06/2004 → 31/05/2007
Project: Research

399: Innovative reactor configurations for biogas production
Angelidaki, I.
Ukendt
01/04/2003 → 01/04/2007
Project: Research

398: Use of membranes for extraction of H2 produced by fermentation
Angelidaki, I.
Ukendt
15/10/2004 → 31/12/2007
Project: Research

BIOWASTE: BIOWASTE. Bioprocessing of sewage sludge for safe recycling on agricultural land
Schmidt, J. E., Christensen, N., Angelidaki, I., Batstone, D. J., Caro Garcia, H. H., Trably, E. & Eriksson, E.
Forsk. EU - Rammeprogram
01/10/2002 → 30/09/2005
Project: Research

Kortlægning og dokumentation af procesforhold på danske biogasanlæg.
Angelidaki, I.
Forskningsprojekter - Miljø- og Energiministeriet
01/04/2002 → 31/12/2005
Project: Research

Reduction of xenobiotic compounds found in the sewage sludge by bioprocessing. START-programmet.
Schmidt, J. E. & Angelidaki, I.
Forskningsrådene - STVF
20/09/2001 → 01/02/2002
Project: Research

Study on anarobic treatment of sewage sludge for removal of linear alkylbenzene sulfonates (LAS).
Angelidaki, I., Batstone, D. J., Schmidt, J. E. & Toräng, L.
Sam.arb.aftaler - Udenlandske offentlige og private
01/07/2001 → 30/06/2004
Project: Research

Biogasprogram
Angelidaki, I. & Pind, P. F.
Forskningsprojekter - Miljø- og Energiministeriet
01/03/2001 → 01/07/2001
Project: Research

Improved monitoring and control of the anaerobic process. START-programmet
Angelidaki, I.
Anaerobic degradation of the organic fraction of municipal solid waste with recirculation of process water
Ahring, B. K., Uellendahl, H. & Angelidaki, I.
01/07/1999 → 06/06/2002
Project: Research

Mathematical Model for dynamic simulation of the anaerobic digestion in UASB reactors treating wastewater with seasonal variations
Schmidt, J. E., Skiadas, I. V., Angelidaki, I. & Ahring, B. K.
01/07/1999 → 01/07/2001
Project: Research

Modelling of the anaerobic decomposition of xenobiotic micropollutants common found in wastewater
Schmidt, J. E., Ahring, B. K. & Angelidaki, I.
01/12/1999 → 01/12/2001
Project: Research

Modeling of the anaerobic process
Angelidaki, I.
01/01/1998 → …
Project: Research

On-Line VFA measurement in biogas reactors.
Ahring, B. K., Andersen, T. H., Pind, P. F. & Angelidaki, I.
01/04/1998 → 01/06/2000
Project: Research

Mathematical model for dynamic simulation of co-digestion of manure and industrial waste
Ahring, B. K. & Angelidaki, I.
01/01/1996 → 01/01/1997
Project: Research

Method for enhancement of gas yield from organic matter in biogas plants
Ahring, B. K., Angelidaki, I., Caro Garcia, H. H. & Philipson, I. S.
01/07/1995 → 30/06/1998
Project: Research

Activities:

Bioelectrochemical systems serve anaerobic digestion process for process monitoring and biogas upgrading
Jin, X. (Speaker), Angelidaki, I. (Speaker), Zhang, Y. (Speaker)
12 Sep 2018
Activity: Talks and presentations › Conference presentations