Co-processing of wood and wheat straw derived pyrolysis oils with FCC feed—Product distribution and effect of deoxygenation

Adsorption and decomposition of tar model compounds over the surface of gasification char and active carbon within the temperature range 250-800 °C

Bioøkonomiens maskinrum. DTU Sektorudviklingsrapport

Catalytic deoxygenation of vapors obtained from ablative fast pyrolysis of wheat straw using mesoporous HZSM-5

Deoxygenation of wheat straw fast pyrolysis vapors using HZSM-5, Al₂O₃, HZSM-5/Al₂O₃ extrudates, and desilicated HZSM-5/Al₂O₃ extrudates

First injera baking biomass gasifier stove to reduce indoor air pollution, and fuel use

Flexible TwoStage biomass gasifier designs for polygeneration operation

From wood chips to pellets to milled pellets: The mechanical processing pathway of Austrian pine and European beech

Impact of ZSM-5 Deactivation on Bio-Oil Quality during Upgrading of Straw Derived Pyrolysis Vapors

Pyrolysis and Gasification of Lignocellulosic Biomass

Solid oxide fuel cell stack coupled with an oxygen-blown TwoStage gasifier using minimal gas cleaning

Activity of chars and activated carbons for removal and decomposition of tar model compounds – A review

A slurry drying plant, a method for drying slurry and use of a slurry drying plant

Characterization and assessment of PAH content in spent char to be used for soil amendment and carbon sequestration

Combustion Behavior of Single Particles of Raw Wood and Pelletized Wood

From Wood Chips to Pellets to Milled Pellets: the Mechanical Processing Pathway of Wood

Optimizing catalytic tar-deoxygenation of fast pyrolysis vapors

Oxygen-blown operation of the TwoStage Viking gasifier

Performance of mesoporous ZSM-5 for the upgrading of straw derived pyrolysis vapors

Performance of mesoporous ZSM-5 in deoxygenation of straw derived pyrolysis vapors

Performance of mesoporous ZSM-5 in deoxygenation of straw derived pyrolysis vapors
Residual Char from Gasification Integrated in a Tar Removal System

Wood Pellet Milling Performance in a Suspension-Fired Power Plant

Wood pellet milling tests in a suspension-fired power plant

Changes imposed by pyrolysis, thermal gasification and incineration on composition and phosphorus fertilizer quality of municipal sewage sludge

Clean Cook Stove Technology for Artisanal Palm Oil Clarification and Biochar Production in Ghana

Comparison of phosphorus recovery from incineration and gasification sewage sludge ash

Full-scale Milling Tests of Wood Pellets for Combustion in a Suspension-Fired Power Plant Boiler

Green Cohesive Agricultural Resource Management - The WEBSOC Project

Low temperature circulating fluidized bed gasification and co-gasification of municipal sewage sludge. Part 1: Process performance and gas product characterization

Low temperature circulating fluidized bed gasification and co-gasification of municipal sewage sludge. Part 2: Evaluation of ash materials as phosphorus fertilizer

Optimizing catalytic deoxygenation of biomass derived fast pyrolysis vapors

Pelletization of torrefied biomass: a modelling approach

Plant Availability of Phosphorus in Five Gasification Biochars

Sequential electrodialytic recovery of phosphorus from low-temperature gasification ashes of chemically precipitated sewage sludge

Solid oxide fuel cells powered by biomass gasification for high efficiency power generation

Tar Removal from Biomass Producer Gas by Using Biochar

Validation of a multiparameter model to investigate torrefied biomass pelletization behavior

Biokul og jordens frugtbarted

Comparison of phosphorus recovery from incineration and gasification sewage sludge ash

Electrodialytic recovery of phosphorus from chemically precipitated sewage sludge ashes

Electrodialytic recovery of phosphorus from chemically precipitated sewage sludge ashes
Energy recovery from water and food sector residual resources

From a single pellet press to a bench scale pellet mill - Pelletizing six different biomass feedstocks

Pore-size distribution and compressibility of coarse sandy subsoil with added biochar

Climate effect of an integrated wheat production and bioenergy system with Low Temperature Circulating Fluidized Bed gasifier

Electrodialytic extraction of phosphorus from ash of low-temperature gasification of sewage sludge

Electrodialytic separation of phosphorus and heavy metals from sewage sludge ash

Experimental analysis of a solid oxide fuel cell stack coupled with biomass gasification

Forgasning og fremstilling af halmkoks

Gasification biochar as a valuable by-product for carbon sequestration and soil amendment

Integration of oxygen membranes for oxygen production in cement plants

Screening of various low-grade biomass materials for low temperature gasification: Method development and application

Trends in energy supply integration
Thermal and biological conversion of biomass and waste

Electrodialytic extraction of phosphorus from ash of low-temperature gasification of sewage sludge

Gas cleaning with hot char beds studied by stable isotopes

Kinetic model for torrefaction of wood chips in a pilot-scale continuous reactor

Assessment of a novel alder biorefinery concept to meet demands of economic feasibility, energy production and long term environmental sustainability

Biomass gasification cogeneration – A review of state of the art technology and near future perspectives

Decentralized combined heat and power production by two-stage biomass gasification and solid oxide fuel cells

Integration of mixed conducting membranes in an oxygen–steam biomass gasification process

Intrinsic kinetics and devolatilization of wheat straw during torrefaction

Lab and Bench-Scale Pelletization of Torrefied Wood Chips
Process Optimization and Pellet Quality
The influence of partial oxidation mechanisms on tar destruction in TwoStage biomass gasification

TwoStage gasification of biomass for clean syngas: Technology and applications

Assessment of a novel alder biorefinery concept to meet demands of economic feasibility, energy production and long term environmental sustainability

Assessment of a novel alder biorefinery concept to meet demands of economics feasibility, energy production and long term environmental sustainability

Changes of chemical and mechanical behavior of torrefied wheat straw

Energy efficiency improvements in energy supply and industry

Fuel Pellets from Wheat Straw: The Effect of Lignin Glass Transition and Surface Waxes on Pelletizing Properties

Quality effects caused by torrefaction of pellets made from Scots pine

Quality of pellets from torrefied biomass and pellets torrefied at different temperatures

Recent Developments in Biomass Pelletization - A Review

Soil application of ash produced by low-temperature fluidized bed gasification: effects on soil nutrient dynamics and crop response

A study of bonding and failure mechanisms in fuel pellets from different biomass resources

Fuel pellets from biomass: The importance of the pelletizing pressure and its dependency on the processing conditions

Fuel pellets from torrefied biomass

Fuel pellets from torrefied biomass

LT-CFB. Videreudvikling og kommercialisering
Slutrapport for PSO-ForskEl projekt nr. 2007-7504

Optimization of a multi-parameter model for biomass pelletization to investigate temperature dependence and to facilitate fast testing of pelletization behavior

Pelletizing Properties of Torrefied Biomass

Pelletizing properties of torrefied spruce

Production of methanol/DME from biomass
EFP06
The potential of pyrolysis technology in climate change mitigation – influence of process design and parameters, simulated in SuperPro Designer Software

Thermal transitions of the amorphous polymers in wheat straw

Thermodynamic analysis of small-scale dimethyl ether (DME) and methanol plants based on the efficient two-stage gasifier

Binding mechanisms in fuel pellets made from biomass

Bio-SNG potential assessment: Denmark 2020

Development and Test of a new Concept for Biomass Producer Gas Engines

On the significance of methyl chloride in gasification processes

Tar removal from low-temperature gasifiers

Characterization of biomass producer gas as fuel for stationary gas engines in combined heat and power production

Char reactivity of different kind of BIOMASS pellets under overheated steam gasification conditions

Produktion af methanol/DME ud fra biomasse

The Low Temperature CFB gasifier – 500 kW test on biogas fiber residue

High temperature electrolyte supported Ni-GDC/YSZ/LSM SOFC operation on two-stage Viking gasifier product gas

The design, construction and operation of a 75kW two-stage gasifier

The Influence of Sulfur on Natural Gas Combustion

Validation of Continuous CHP Operation of a Two-Stage Biomass Gasifier

CO and PAH emissions from engines operating on producer gas

Experimental characterisation of residual-tar in wood char

Formation, Decomposition and Cracking of Biomass Tars in Gasification

Investigation of Continuous Gas Engine CHP Operation on Biomass Producer Gas

Investigation of Continuous Gas Engine CHP Operation on Biomass Producer Gas

Langtidsforsøg med totrinsforgasseren "Viking"
Pyrolysis of Pine Wood
Experiments and Theory

The thermal history of char as disclosed by carbon isotope ratios

Time resolved pyrolysis of char

CO Emissions from Gas Engines Operating on Biomass Producer Gas

Status - 2000 Hours of Operation with the Viking Gasifier

Upscale of the Two-Stage Gasification Process

CO and PAH Emissions from Engines Operating on Biomass Producer Gas

Combustion Chamber Deposits and PAH Formation in SI Engines Fueled by Producer Gas from Biomass Gasification

The Design, Construction and Operation of a 75 kW Two-Stage Gasifier

CO Emissions from Gas Engines Fueled by Producer Gas

High Performance Gasification with the Two-Stage Gasifier

Experiments with wood gas engines

Experimentals on Wood Gas Engine

Ford VSG 411 fueled by producer gas from a two-stage gasifier

Hydrocarbon emissions from an SI engine using different hydrogen-containing gaseous fuels

Application of a Bitumenous Fuel in a Diesel Engine

Ford VSG 411 Fuelled by Producer Gas from a Two-stage Gasifier

Totrinsforgasning, uge 47 1999
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