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Evaluating the impact of plant-wide WWTP control strategies on energy consumption and greenhouse gas emissions
Publication: Research - peer-review › Paper – Annual report year: 2012

Evaluation of the efficiency of alternative enzyme production technologies
Albæk, M. O., Gernaey, K., Hansen, M. S. & Stocks, S. M. 2012 Technical University of Denmark, Department of Chemical Engineering. 176 p.
Publication: Research › Ph.D. thesis – Annual report year: 2012

Experiences on dynamic simulation software in chemical engineering education
Publication: Research - peer-review › Journal article – Annual report year: 2012

Experimental determination of thermodynamic equilibrium in biocatalytic transamination
Extending the BSM platform with occurrence, transport and fate of micro-pollutants using the ASM-X framework
Publication: Research - peer-review » Paper – Annual report year: 2012

Extension of computer aided solvent selection and design framework - organic solvents for phase transfer catalysis and solvent selection and solvent mixture design for pharmaceutical applications
Mitrofanov, I., Abildskov, J., Sin, G. & Gani, R. 2012
Publication: Research » Conference abstract for conference – Annual report year: 2012

Following an Optimal Batch Bioreactor Operations Model
Publication: Research » Conference abstract for conference – Annual report year: 2012

Framework for the analysis of crystallization operations
Meisler, K. T., Abdul Samad, N. A. F. B., Gernaey, K., von Solms, N. & Gani, R. 2012
Publication: Research » Conference abstract for conference – Annual report year: 2012

Full in vitro fertilization laboratory mechanization: toward robotic assisted reproduction?
Meseguer, M., Krühne, U. & Laursen, S. 2012 In : Fertility and Sterility. 97, 6, p. 1277-1286
Publication: Research » Journal article – Annual report year: 2012

Gernaey, K. 2012
Publication: Research » Sound/Visual production (digital) – Annual report year: 2012

Global sensitivity analysis of the BSM2 dynamic influent disturbance scenario generator
Publication: Research » Journal article – Annual report year: 2012

Group Contribution+ (GC+) Based Estimation of Environment-Related Properties for Design of Sustainable Processes:
Development of Property Models and Uncertainty Analysis
Hukkerikar, A., Sarup, B., Young, D., Sin, G. & Gani, R. 2012
Publication: Research » Conference abstract for conference – Annual report year: 2012

Group-contribution + (GC+) based estimation of properties of pure components: Improved property estimation and uncertainty analysis
Publication: Research » Journal article – Annual report year: 2012

Identification of bottlenecks for P450 biotransformation processes
Andersson, M. T., Törnvall, U., Tufvesson, P. & Woodley, J. 2012
Publication: Research » Conference abstract for conference – Annual report year: 2012

Identification of bottlenecks for P450 biotransformation processes
Andersson, M. T., Törnvall, U., Tufvesson, P. & Woodley, J. 2012
Publication: Research » Poster – Annual report year: 2012

Immobilization of Escherichia coli containing ω-transaminase activity in LentiKats®
Publication: Research » Journal article – Annual report year: 2012
Improving productivity and enzyme stability through process design: Lipase catalyzed synthesis of epoxides and esters.
Publication: Research › Poster – Annual report year: 2012

Incremental design of control system of SHARON-Anammox process for autotrophic nitrogen removal
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Incremental design of control system of SHARON-Anammox process for autotrophic nitrogen removal
Mauricio Iglesias, M., Valverde Perez, B. & Sin, G. 2012
Publication: Research › Sound/Visual production (digital) – Annual report year: 2012

Integrated Business and Engineering Framework for Synthesis and Design of Enterprise-Wide Processing Networks
Publication: Research - peer-review › Journal article – Annual report year: 2011

Integrating Porous Resins In Enzymatic Processes
Al-Haque, N., Woodley, J., Gani, R. & Tufvesson, P. 2012 Technical University of Denmark, Department of Chemical Engineering. 251 p.
Publication: Research › Ph.D. thesis – Annual report year: 2012

Integrating process and automation design based on functional concepts
Jørgensen, S. B. 2012
Publication: Research › Conference abstract for conference – Annual report year: 2012

Ionic liquids in integrated catalytic technologies to produce furanic chemical
Risager, A., Ståhlberg, T. J. B., Fu, W., Woodley, J. & Fristrup, P. 2012
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

Kinetics of acetic acid synthesis from ethanol over a Cu/SiO2 catalyst
Publication: Research › Poster – Annual report year: 2012

Lab on a chip automates in vitro cell culturing
Publication: Research - peer-review › Journal article – Annual report year: 2012

Managing biocatalytic productivity
Törnvall, U. & Woodley, J. 2012
Publication: Research › Poster – Annual report year: 2012

Measuring the eco-efficiency of bioprocesses
Publication: Communication › Journal article – Annual report year: 2012

Metrics for environmental evaluation of biocatalytic processes
Publication: Research › Paper – Annual report year: 2012

Model-based analysis of control performance in sewer systems
Modellbaseret valg og optimering af industrielle bioreaktorer
Albæk, M. O., Gernaey, K., Hansen, M. S. & Stocks, S. M. 2012 In : Dansk Kemi. 93, 11, p. 22-24
Publication: Communication › Journal article – Annual report year: 2012

Modeling Operating Modes during Plant Life Cycle
Jørgensen, S. B. & Lind, M. 2012
Publication: Research › Sound/Visual production (digital) – Annual report year: 2012

Modeling Operating Modes during Plant Life Cycle
Publication: Research › Conference abstract in proceedings – Annual report year: 2012

Modeling Operating Modes for the Monju Nuclear Power Plant
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Modeling Operating Modes for the Monju Nuclear Power Plant
Publication: Research - peer-review › Journal article – Annual report year: 2013

Modelling and control design for SHARON/Anammox reactor sequence
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Modelling of physical properties - databases, uncertainties and predictive power
Gani, R. 2012
Publication: Research › Conference abstract for conference – Annual report year: 2012

Molecular structure based physical properties modelling
Cunico, L., Hukkerikar, A., Sin, G. & Gani, R. 2012
Publication: Research › Conference abstract for conference – Annual report year: 2012

Monitoring and Control of a Continuous Grignard Reaction for the Synthesis of an Active Pharmaceutical Ingredient Intermediate Using Inline NIR spectroscopy
Publication: Research - peer-review › Journal article – Annual report year: 2012

Monitoring and control of microbioreactors: An expert opinion on development needs
Publication: Research - peer-review › Journal article – Annual report year: 2012

Multi-enzyme Process Modeling
Andrade Santacoloma, P. D. G., Woodley, J., Gernaey, K. & Sin, G. 2012 Technical University of Denmark, Department of Chemical Engineering. 197 p.
Publication: Research › Ph.D. thesis – Annual report year: 2012
Multi-scale modeling for prediction of distributed cellular properties in response to substrate spatial gradients in a continuously run microreactor
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Nanoporous Polymers for Membrane Applications
Publication: Research › Ph.D. thesis – Annual report year: 2012

Neutral lipid accumulation at elevated temperature in conditional mutants of two microalgae species
Yao, S., Brandt, A. B., Egsgaard, H. & Gjermansen, C. 2012 In : Plant Physiology and Biochemistry. 61, p. 71-79
Publication: Research - peer-review › Journal article – Annual report year: 2012

NIST ThermoData Engine: Extension to Solvent Design and Propagation of Uncertainties for Process Simulation
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

On controllability of an integrated bioreactor and periodically operated membrane separation process
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

One-millilitre microbioreactor with impeller for improved mixing
Publication: Research › Poster – Annual report year: 2012

Operation and Control of Enzymatic Biodiesel Production
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Optimal Design of Biodiesel Production Process from Waste Cooking Palm Oil
Simasatitkul, L., Gani, R., Arpornwichanop, A. & Dr Petr Kluson 2012 In : Procedia Engineering. 42, p. 1292-1301
Publication: Research - peer-review › Conference article – Annual report year: 2012

Optimization based tuning approach for offset free MPC
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Overcoming kinetic limitations in biocatalysis
Publication: Research › Conference abstract for conference – Annual report year: 2012
PAT tools for fermentation processes
Gernaey, K., Bolic, A. & Svanholm, B. 2012 In : Chimica Oggi. 30, 3, p. 38-43
Publication: Research - peer-review › Journal article – Annual report year: 2012

Phase equilibrium modeling of gas hydrate systems for CO2 capture
Publication: Research - peer-review › Journal article – Annual report year: 2012

pH control structure design for a periodically operated membrane separation process
Publication: Research - peer-review › Journal article – Annual report year: 2012

Phenomena-based Process Synthesis and Design to achieve Process Intensification
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

pH variation and influence in an autotrophic nitrogen removing biofilm system: An efficient numerical solution strategy
Publication: Research - peer-review › Poster – Annual report year: 2012

Physiological heterogeneities in microbial populations and implications for physical stress tolerance
Publication: Research - peer-review › Journal article – Annual report year: 2012

Proceedings of the 17th Nordic Process Control Workshop
Publication: Research - peer-review › Book – Annual report year: 2012

Process considerations for protein engineering of ω-Transaminase
Publication: Research › Conference abstract for conference – Annual report year: 2012

Process Design and Evaluation for Chemicals Based on Renewable Resources
Fu, W., Woodley, J., Gani, R. & Riisager, A. 2012 Technical University of Denmark, Department of Chemical Engineering. 327 p.
Publication: Research › Ph.D. thesis – Annual report year: 2012

Process engineering for biocatalytic reactions and biotransformations
Woodley, J. 2012
Publication: Research › Conference abstract for conference – Annual report year: 2012
Process engineering for transaminase-catalysed reactions
Woodley, J. 2012
Publication: Research › Conference abstract for conference – Annual report year: 2012

Process engineering tools to guide implementation and scale-up of transaminase cascades
Publication: Research › Conference abstract for conference – Annual report year: 2012

Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Process Intensification of the Production of Di-Methyl Carbonate (DMC) Using a New Synthesis and Design Process Intensification Methodology Framework
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Process/reactor selection for multistep biocatalysis.
Xue, R., Mikkelsen, J. D., Meyer, A. S. & Woodley, J. 2012
Publication: Research › Poster – Annual report year: 2012

Process Synthesis, Design and Intensification: An Integrated Approach
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Process Systems Engineering, 1. Introduction
Publication: Research - peer-review › Book chapter – Annual report year: 2012

Process Systems Engineering, 2. Modeling and Simulation
Publication: Research - peer-review › Book chapter – Annual report year: 2012

Process Systems Engineering, 5. Process Dynamics, Control, Monitoring, and Identification
Publication: Research - peer-review › Book chapter – Annual report year: 2012

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

Process Systems Engineering, 9. Domain Engineering
Publication: Research - peer-review › Book chapter – Annual report year: 2012

Process Technology for Immobilized Lipase-catalyzed Reactions
Xu, Y., Woodley, J. & Nordblad, M. 2012 Technical University of Denmark, Department of Chemical Engineering. 199 p.
Publication: Research › Ph.D. thesis – Annual report year: 2012
Process technology for multi-enzymatic reaction systems
Publication: Research - peer-review › Journal article – Annual report year: 2012

Production of Dialkyl Carbonates Via Reactive-Extractive and Pressure-Swing Distillations Using Unifac-CI VLE Model Predictions
Dada, E. A., Mustaffa, A. A. & Gani, R. 2012
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Production of ethanol from excess ethylene
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Property Modelling and Databases in Product-Process Design
Gani, R. & Sansonetti, S. 2012
Publication: Research › Conference abstract for conference – Annual report year: 2012

Property Prediction for Emulsion based Chemical Product Design
Mattei, M., Kontogeorgis, G. & Gani, R. 2012
Publication: Research › Conference abstract for conference – Annual report year: 2012

Property Prediction for Emulsion based Chemical Product Design
Mattei, M., Kontogeorgis, G. & Gani, R. 2012
Publication: Research › Poster – Annual report year: 2012

Protein Dynamics in Organic Media at Varying Water Activity Studied by Molecular Dynamics Simulation
Publication: Research - peer-review › Journal article – Annual report year: 2012

PSE opportunities in biocatalytic process design and development
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Quantifying uncertainties of nucleation and crystal growth models on PAT system performance for crystallization processes
Publication: Research › Conference abstract for conference – Annual report year: 2012

Reaction and Process Engineering
Publication: Research - peer-review › Book chapter – Annual report year: 2012

Recent trends in modelling and simulation of biological nutrient removal systems
Publication: Research - peer-review › Poster – Annual report year: 2012

Recent trends in modelling and simulation of nutrient removal systems
Publication: Research - peer-review › Book chapter – Annual report year: 2012
Reduction of a Mechanistic Drying Model of Pharmaceutical Granules for Inclusion in a Population Balance Model with Continuous Growth Term
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Relative importance of secondary settling tank models in WWTP simulations: A global sensitivity analysis using BSM2
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Self-optimising control of sewer systems
Publication: Research - peer-review › Sound/Visual production (digital) – Annual report year: 2012

Sensitivity analysis of autotrophic N removal by a granule based bioreactor: Influence of mass transfer versus microbial kinetics
Publication: Research - peer-review › Journal article – Annual report year: 2012

Sensitivity of Process Design due to Uncertainties in Property Estimates
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Sensitivity of process design to uncertainties in property estimates applied to extractive distillation
Publication: Research › Conference abstract for conference – Annual report year: 2012

Separation of azeotropic mixtures
Fernández, E. B., Gani, R. & Sin, G. 2012
Publication: Research › Conference abstract for conference – Annual report year: 2012

Simultaneous design of ionic liquid entrainers and energy efficient azeotropic separation processes
Publication: Research - peer-review › Conference article – Annual report year: 2012

Simultaneous Design of Ionic Liquids and CO2 Recovery Processes
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Soft sensors in bioprocessing: A status report and recommendations
Publication: Research - peer-review › Journal article – Annual report year: 2012

Solventpro: The Solvent Selection and Design Framework
Mitrofanov, I., Sin, G. & Gani, R. 2012
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012
State Estimation for the Automotive SCR Process
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

State Estimation in the Automotive SCR DeNOx Process
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

State Estimation in the Automotive SCR DeNOx Process
Publication: Research - peer-review › Poster – Annual report year: 2012

State-of-the-art and progress in the optimization-based simultaneous design and control for chemical processes
Publication: Research - peer-review › Journal article – Annual report year: 2012

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

Synthesis and Design of Processing Networks: Stochastic Formulation and Solution
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Synthesis and Design of Processing Networks: Decision Making Under Uncertainty
Quaglia, A., Sin, G., Gani, R. & Sarup, B. 2012
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Synthesis and design of processing networks: decision making under uncertainty and sensitivity analysis
Quaglia, A., Sarup, B., Sin, G. & Gani, R. 2012
Publication: Research › Conference abstract for conference – Annual report year: 2012

Synthesis and Design of Processing Networks: Stochastic Formulation and Solution
Quaglia, A., Sarup, B., Sin, G. & Gani, R. 2012
Publication: Research - peer-review › Poster – Annual report year: 2012

Synthesis of Industrial Water Networks
Pennati, A., Quaglia, A. & Gani, R. 2012
Publication: Research › Conference abstract for conference – Annual report year: 2012

Systematic identification of crystallization kinetics within a generic modelling framework
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Systematic Multi-Scale Model Development Strategy for the Fragrance Spraying Process and Transport
Heitzig, M., Rong, Y., Gregson, C., Sin, G. & Gani, R. 2012 In : Chemical Engineering and Technology. 35, 8, p. 1381-1391
Publication: Research - peer-review › Journal article – Annual report year: 2012
Temperature Modelling of the Biomass Pretreatment Process
Publication: Research › Article in proceedings – Annual report year: 2012

ThermoData Engine: Extension to Solvent Design and Multi-component Process Stream Property Calculations with Uncertainty Analysis
Publication: Research › Conference abstract for conference – Annual report year: 2012

The Solvent Selection framework: solvents for organic synthesis, separation processes and ionic-liquids solvents
Mitrofanov, I., Sansonetti, S., Abildskov, J., Sin, G. & Gani, R. 2012
Publication: Research › Conference abstract for conference – Annual report year: 2012

The Solvent Selection framework: solvents for organic synthesis, separation processes and ionic-organic synthesis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Tools for characterizing the whole-cell bio-oxidation of alkanes at microscale
Publication: Research - peer-review › Journal article – Annual report year: 2012

Projects:

Advanced modeling, simulation and tools integration for in-silico process design and optimization
Shibabaw Molla, G.
01/11/2016 → ...
Project

Advancing Modelling for Process-Product Innovation, Optimization, Monitoring and Control in Life Science Industries
01/11/2015 → 31/10/2019
Project

Engineered yeast strains for the production of bulk chemicals from algae biomass
Förster, J., Porcayo Loza, J. & Gernaey, K. V.
15/10/2015 → 14/10/2018
Project

Advanced thermodynamic cycles utilising low-temperature heat sources
01/03/2014 → 28/02/2019
Project

Development of 2nd Generation Biorefineries Production of Dicarboxylic Acids and Bio-based Polymers Derived Thereof
Förster, J., Borodina, I., Stovicek, V., Ógmundarson, O., Rasmussen, B. K., Lis, A. V. & Lohmann, R.
01/10/2013 → 30/09/2017
Project
Activities:

**Model-based optimization of a full-scale industrial anaerobic reactor producing biogas**
Feldman, H. (Speaker), Flores Alsina, X. (Other), Ramin, P. (Other), Kasper Kjellberg (Other), Ulf Jeppsson (Other), Gernaey, K. V. (Other)
10 Dec 2017 → 13 Dec 2017
Activity: Talks and presentations › Conference presentations

**Real-time monitoring of a fermentation process: linking yeast morphology to insulin production by image analysis**
Pontius, K. (Guest lecturer)
1 Nov 2017
Activity: Talks and presentations › Conference presentations

**CFD application as a tool for designing industrial fermenters**
Pereira Rosinha Grundtvig, I. (Speaker), Gernaey, K. V. (Other)
29 Oct 2017 → 1 Nov 2017
Activity: Talks and presentations › Conference presentations

**Dynamics of physiological adaptation of Saccharomyces cerevisiae to biomass hydrolysates: a single cell analysis approach.**
Lopez, P. C. (Other), Chuen Tao Peng (Other), Nils Arneborg (Other), Eliasson Lantz, A. (Other), Gernaey, K. V. (Other)
29 Oct 2017 → 2 Nov 2017
Activity: Talks and presentations › Conference presentations

**Strategy for characterizing microbial physiology across scales in fermentation processes**
Nadal Rey, G. (Other), Sjef Cornelissen (Other), Eliasson Lantz, A. (Other), Gernaey, K. V. (Other)
29 Oct 2017
Activity: Talks and presentations › Conference presentations

**Modelling Illicit Drug Fate in Sewers for Wastewater-Based Epidemiology**
Ramin, P. (Speaker), Mikkelsen, P. S. (Guest lecturer), Plósz, B. G. (Guest lecturer)
26 Oct 2017 → 27 Oct 2017
Activity: Talks and presentations › Conference presentations

**Calibration and Validation of an Anaerobic Digestion Model for Process Optimization of an Industrial Granular Sludge Reactor**
Feldman, H. (Speaker), Flores Alsina, X. (Other), Ramin, P. (Other), Kasper Kjellberg (Other), Ulf Jeppsson (Guest lecturer), Batstone, D. J. (Guest lecturer), Gernaey, K. V. (Guest lecturer)
17 Oct 2017 → 20 Oct 2017
Activity: Talks and presentations › Conference presentations

**Operational monitoring of phosphate and ammonium for an industrial fermentation process using infrared (IR) and near-infrared (NIR) spectroscopy**
Pontius, K. (Speaker)
5 Oct 2017
Activity: Talks and presentations › Conference presentations

**Design of a gas-inducing impeller using Computational Fluid Dynamics**
Pereira Rosinha Grundtvig, I. (Guest lecturer), Tim Hybschmann (Other), Gernaey, K. V. (Other), Tore C. Svendsen (Other), Krühne, U. (Other)
1 Oct 2017 → 5 Oct 2017
Activity: Talks and presentations › Conference presentations
Topology optimization as a tool for designing microboreactors
Pereira Rosinha Grundtvig, I. (Speaker), Daugaard, A. E. (Other), Woodley, J. (Other), Krühne, U. (Other)
1 Oct 2017 → 5 Oct 2017
Activity: Talks and presentations › Conference presentations

Feasibility-test of a complete autotrophic nitrogen removal process treating the effluent of an industrial anaerobic digester
Feldman, H. (Other), Flores Alsina, X. (Other), Kasper Kjellberg (Other), Blum, J. (Other), Valverde Pérez, B. (Other), Sin, G. (Other), Smets, B. F. (Other), Gernaey, K. V. (Other)
9 May 2017 → 12 May 2017
Activity: Talks and presentations › Conference presentations

Modelling Methane, Sulphide and Multiple Mineral Precipitation in a Full-Scale Industrial Granular Anaerobic Digester
Feldman, H. (Other), Flores Alsina, X. (Other), Kasper Kjellberg (Other), Sin, G. (Other), Gernaey, K. V. (Other)
9 May 2017 → 12 May 2017
Activity: Talks and presentations › Conference presentations

Safeprops: A Software for Fast and Reliable Estimation of Safety and Environmental Properties for Organic Compounds
Jones, M. N. (Lecturer)
16 Nov 2016
Activity: Talks and presentations › Conference presentations

In-Silico Tailoring Properties of Polylactide
Zubov, A. (Speaker), Sin, G. (Other)
13 Nov 2016 → 18 Nov 2016
Activity: Talks and presentations › Conference presentations

EHEDG World Congress on Hygienic Engineering & Design 2016
Yang, J. (Participant)
2 Nov 2016 → 3 Nov 2016
Activity: Attending an event › Participating in or organising a conference

Model Based Optimization of an Industrial Wastewater Treatment Plant Combining a Full-scale Granular Sludge Reactor and Autotrophic Nitrogen Removal
Feldman, H. (Other), Neda Faraghi Parapari (Other), Sille Bendix Larsen (Other), Kasper Kjellberg (Other), Flores Alsina, X. (Other), Sin, G. (Other), Ulf Jeppsson (Other), Gernaey, K. V. (Other)
Activity: Talks and presentations › Conference presentations

A Biocatalytic Microreactor – Dynamic CFD Modelling and Experimental Analysis
Krühne, U. (Lecturer)
27 Sep 2016
Activity: Talks and presentations › Conference presentations

20th Nordic Process Control Workshop
André Fernandes Caroço, R. (Participant)
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

20th Nordic Process Control Workshop
Boiocchi, R. (Speaker)
Activity: Talks and presentations › Conference presentations

Ecotechnologies for wastewater treatment 2016
Boiocchi, R. (Speaker)
27 Jul 2016 → 30 Jul 2016
Activity: Talks and presentations › Conference presentations

11th IFAC Symposium on Dynamics and Control of Process Systems Including Biosystems DYCOPS-CAB 2016
Boiocchi, R. (Speaker)
6 Jun 2016 → 8 Jun 2016
Activity: Talks and presentations › Conference presentations

Model based monitoring of bioprocessing plants - a solid-liquid extraction example
André Fernandes Caroço, R. (Lecturer)
21 Apr 2016
Activity: Talks and presentations › Conference presentations

13th Multiphase Flow Conference & Short Course
Yang, J. (Participant)
24 Nov 2015 → 26 Nov 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

A New Optimization Model for Computer-Aided Molecular Design Problems
Cignitti, S. (Speaker)
9 Nov 2015
Activity: Talks and presentations › Conference presentations

Systematic Computer-Aided Framework for Sustainable Chemical Product Design
Cignitti, S. (Speaker)
9 Nov 2015
Activity: Talks and presentations › Conference presentations

2015 AIChE Annual Meeting
Frauzem, R. (Participant)
8 Nov 2015 → 13 Nov 2015
Activity: Attending an event › Participating in or organising a conference

10th European Congress of Chemical Engineering
Frauzem, R. (Participant)
28 Sep 2015 → 29 Sep 2015
Activity: Attending an event › Participating in or organising a conference

A Systematic Computer-Aided Framework for Integrated Design and Control of Chemical Processes
Mansouri, S. S. (Keynote speaker)
28 Sep 2015
Activity: Talks and presentations › Conference presentations

Cignitti, S. (Speaker)
28 Sep 2015
Activity: Talks and presentations › Conference presentations

10th European Congress of Chemical Engineering
Handani, Z. B. (Participant)
27 Sep 2015 → 1 Oct 2015
Activity: Attending an event › Participating in or organising a conference

4th Summer School of the IMPRS Magdeburg on Process Systems Engineering
Cignitti, S. (Participant)
31 Aug 2015 → 4 Sep 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

**Dynamic Modeling and Optimization of Large Scale Lignocellulosic Biorefineries**
Prunescu, R. M. (Invited speaker)
18 Aug 2015
Activity: Talks and presentations › Conference presentations

**9th IWA Symposium on Systems Analysis and Integrated Assessment (Watermatex 2015)**
Boiocchi, R. (Speaker)
14 Jun 2015 → 17 Jun 2015
Activity: Talks and presentations › Conference presentations

**12th PSE and 25th ESCAPE Joint Conference**
Cignitti, S. (Organizer)
31 May 2015 → 4 Jun 2015
Activity: Attending an event › Participating in or organising a conference

**12th PSE and 25th ESCAPE Joint Conference**
Boiocchi, R. (Participant)
31 May 2015 → 4 Jun 2015
Activity: Attending an event › Participating in or organising a conference

**25th European Symposium on Computer Aided Process Engineering**
Frauzem, R. (Organizer)
31 May 2015 → 4 Jun 2015
Activity: Attending an event › Participating in or organising a conference

**Multivariate analysis of industrial scale fermentation data**
Mears, L. (Speaker)
31 May 2015 → 4 Jun 2015
Activity: Talks and presentations › Conference presentations

**4th International Congress on Sustainability Science & Engineering**
Frauzem, R. (Speaker)
28 May 2015
Activity: Talks and presentations › Conference presentations

**4th International Congress on Sustainability Science & Engineering**
Handani, Z. B. (Participant)
Activity: Attending an event › Participating in or organising a conference

**Application of Multivariate Analysis Tools to Industrial Scale Fermentation Data**
Mears, L. (Speaker)
22 Apr 2015 → 24 Apr 2015
Activity: Talks and presentations › Conference presentations

**19th Nordic Process Control Workshop**
Boiocchi, R. (Speaker)
13 Jan 2015 → 16 Jan 2015
Activity: Talks and presentations › Conference presentations

**2014 AIChE Annual Meeting: American Institute of Chemical Engineers**
Frauzem, R. (Speaker)
19 Nov 2014
Dynamic Simulation, Sensitivity and Uncertainty Analysis of a Demonstration Scale Lignocellulosic Enzymatic Hydrolysis Process
Prunescu, R. M. (Speaker)
16 Nov 2014 → 21 Nov 2014
Activity: Talks and presentations › Conference presentations

Microfluidics in Chemical and Biochemical Engineering Applications
Krühne, U. (Lecturer)
23 Sep 2014
Activity: Talks and presentations › Conference presentations

An Integrated approach for synthesis and design of process and water/wastewater networks
Handani, Z. B. (Speaker)
23 Aug 2014 → 27 Aug 2014
Activity: Talks and presentations › Conference presentations

A Tool to Support Optimal Industrial Wastewater Treatment Design and Analysis
Gani, R. (Lecturer)
24 Apr 2013 → 26 Apr 2013
Activity: Talks and presentations › Conference presentations

A Tool to Support Optimal Industrial Wastewater Treatment Design and Analysis
Bozkurt, H. (Lecturer)
24 Apr 2013 → 26 Apr 2013
Activity: Talks and presentations › Conference presentations

A Tool to Support Optimal Industrial Wastewater Treatment Design and Analysis
Sin, G. (Lecturer)
24 Apr 2013 → 26 Apr 2013
Activity: Talks and presentations › Conference presentations

Design of future municipal wastewater treatment plants: A mathematical approach to manage complexity and identify optimal solutions
Bozkurt, H. (Lecturer)
24 Apr 2013 → 26 Apr 2013
Activity: Talks and presentations › Conference presentations

Design of future municipal wastewater treatment plants: A mathematical approach to manage complexity and identify optimal solutions
Quaglia, A. (Lecturer)
24 Apr 2013 → 26 Apr 2013
Activity: Talks and presentations › Conference presentations

Design of future municipal wastewater treatment plants: A mathematical approach to manage complexity and identify optimal solutions
Gernaey, K. V. (Lecturer)
24 Apr 2013 → 26 Apr 2013
Activity: Talks and presentations › Conference presentations

Design of future municipal wastewater treatment plants: A mathematical approach to manage complexity and identify optimal solutions
Sin, G. (Lecturer)
24 Apr 2013 → 26 Apr 2013
Activity: Talks and presentations › Conference presentations
Selection and design of solvents
Gani, R. (Lecturer)
21 Apr 2013 → 24 Apr 2013
Activity: Talks and presentations › Conference presentations

Computer-aided modeling framework: a generic template as a modeling tool
Fedorova, M. (Speaker)
20 Apr 2013 → 25 Apr 2013
Activity: Talks and presentations › Conference presentations

Computer-aided modeling framework: a generic template as a modeling tool
Sin, G. (Speaker)
20 Apr 2013 → 25 Apr 2013
Activity: Talks and presentations › Conference presentations

Computer-aided modeling framework: a generic template as a modeling tool
Gani, R. (Speaker)
20 Apr 2013 → 25 Apr 2013
Activity: Talks and presentations › Conference presentations

Design of a Tank Cleaning Blend through a Systematic Emulsified Product Design Methodology
Kontogeorgis, G. (Lecturer)
20 Apr 2013 → 25 Apr 2013
Activity: Talks and presentations › Conference presentations

Design of a Tank Cleaning Blend through a Systematic Emulsified Product Design Methodology
Mattei, M. (Lecturer)
20 Apr 2013 → 25 Apr 2013
Activity: Talks and presentations › Conference presentations

Design of a Tank Cleaning Blend through a Systematic Emulsified Product Design Methodology
Gani, R. (Lecturer)
20 Apr 2013 → 25 Apr 2013
Activity: Talks and presentations › Conference presentations

Efficient Information and Data Management in Synthesis and Design of Processing Networks
Sin, G. (Lecturer)
20 Apr 2013 → 25 Apr 2013
Activity: Talks and presentations › Conference presentations

Efficient Information and Data Management in Synthesis and Design of Processing Networks
Gani, R. (Lecturer)
20 Apr 2013 → 25 Apr 2013
Activity: Talks and presentations › Conference presentations

Modelling of physical and thermodynamic properties in systems containing edible oils and biodiesel
Cunico, L. (Lecturer)
20 Apr 2013 → 25 Apr 2013
Activity: Talks and presentations › Conference presentations

Modelling of physical and thermodynamic properties in systems containing edible oils and biodiesel
Ceriani, R. (Lecturer)
20 Apr 2013 → 25 Apr 2013
Activity: Talks and presentations › Conference presentations
Modelling of physical and thermodynamic properties in systems containing edible oils and biodiesel
Gani, R. (Lecturer)
20 Apr 2013 → 25 Apr 2013
Activity: Talks and presentations › Conference presentations

Recent advances in CAPE and PSE applicable to the Pharmaceuticals Industry
Gani, R. (Lecturer)
19 Dec 2012
Activity: Talks and presentations › Conference presentations

Computational Solvent Design for Integrated Chemical Processes
Gani, R. (Lecturer)
15 Nov 2012 → 16 Nov 2012
Activity: Talks and presentations › Conference presentations

Pesticide uptake modeling
Gani, R. (Lecturer)
7 Nov 2012
Activity: Talks and presentations › Conference presentations

Research at CAPEC
Gani, R. (Lecturer)
27 Sep 2012
Activity: Talks and presentations › Conference presentations

International Conference on Operations Research
Hansen, K. R. N. (Participant)
2 Sep 2012
Activity: Attending an event › Participating in or organising a conference

Hukkerikar, A. S. (Speaker)
15 Jul 2012 → 19 Jul 2012
Activity: Talks and presentations › Conference presentations

25th European Conference on Operations Research
Hansen, K. R. N. (Participant)
10 Jul 2012
Activity: Attending an event › Participating in or organising a conference

Novel applications of microbial transglutaminase as a biocatalyst for benign amide synthesis
Deslauriers, M. G. (Speaker)
18 May 2012
Activity: Talks and presentations › Conference presentations

Enzyme engineering for medical and biocatalytic applications
Deslauriers, M. G. (Speaker)
12 May 2012
Activity: Talks and presentations › Conference presentations

Biorefinery Öresund Conference 'Biorefining from raw material to high value products'
Cheali, P. (Speaker), Gernaey, K. V. (Speaker), Sin, G. (Speaker)
1 May 2012 → 30 Apr 2015
Activity: Talks and presentations › Conference presentations
Cost Estimation for Early-Stage Synthesis and Design of Biorefinery Networks
Cheali, P. (Other)
1 May 2012 → 30 Apr 2014
Activity: Talks and presentations › Conference presentations

Synthesis and design of hybrid biorefinery systems – a structural optimisation approach and uncertainty analysis
Cheali, P. (Speaker)
1 May 2012 → 30 Apr 2015
Activity: Talks and presentations › Conference presentations

Uncertainty analysis in raw material and utility cost of biorefinery synthesis and design
Cheali, P. (Other)
1 May 2012 → 30 Apr 2015
Activity: Talks and presentations › Conference presentations

Process engineering tools to guide implementation and scale-up of transaminase cascades
Tufvesson, P. (Speaker)
13 Apr 2012
Activity: Talks and presentations › Conference presentations

Microbial transglutaminase; exploration of substrate specificity, and biocatalytic applications
Deslauriers, M. G. (Speaker)
18 Nov 2011
Activity: Talks and presentations › Conference presentations

Building and sustaining an Industrial Consortium – The experience of DTU-CAPEC
Gani, R. (Speaker)
22 Apr 2011
Activity: Talks and presentations › Conference presentations

Managing the Complexity in Product and Process Engineering
Gani, R. (Speaker)
17 Mar 2011
Activity: Talks and presentations › Guest lectures, external teaching and course activities at other universities

CAPEC Overview and Status - 2011
Gani, R. (Speaker)
10 Feb 2011
Activity: Talks and presentations › Conference presentations

CAPEC Overview and Status - 2011
Gani, R. (Invited speaker)
27 Jan 2011
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Prizes:

Best Oral Presentation Award
Seyed Soheil Mansouri (Recipient), 7 Jun 2015
Prize: Prizes, scholarships, distinctions

Best Presentation
Seyed Soheil Mansouri (Recipient), 10 Nov 2015
Prize: Prizes, scholarships, distinctions