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Publication: Research - peer-review › Journal article – Annual report year: 1995

Process development for scale-up of biotransformations: chemoenzymatic synthesis of N-acetylneuraminic acid
Blayer, S., Woodley, J., Dawson, M. J. & Lilly, M. D. 1995
Publication: Research › Poster – Annual report year: 1995

Process synthesis for multi-step microbial conversions
Publication: Research - peer-review › Journal article – Annual report year: 1995

Some examples of a structured approach to design and operation of biotransformation processes
Lilly, M. D. & Woodley, J. 1995
Publication: Research › Sound/Visual production (digital) – Annual report year: 1995
Tools for biotransformation process design
Woodley, J. 1995
Publication: Research › Poster – Annual report year: 1995

Use of membranes to separate emulsions for product recovery from two liquid phase biotransformations
Woodley, J., Laurence, M. B. & Lilly, M. D. 1995
Publication: Research › Sound/Visual production (digital) – Annual report year: 1995

Biotransformation reactor selection and operation
Publication: Research - peer-review › Book chapter – Annual report year: 1994

Determination of reactor operation for the microbial hydroxylation of toluene in a two-liquid phase process
Publication: Research › Sound/Visual production (digital) – Annual report year: 1994

Development of a process for transketolase catalysed carbon-carbon bond formation
Publication: Research - peer-review › Article in proceedings – Annual report year: 1994

Development of transketolase as a catalyst for carbon-carbon bond formation
Publication: Research - peer-review › Journal article – Annual report year: 1994

Enzymic dehalogenation of haloalkanes and haloalcohols
Publication: Research - peer-review › Article in proceedings – Annual report year: 1994

Kinetic characterisation of aqueous-organic biphasic enzymatic catalysis for the design of multiphasic bioreactors
Publication: Research - peer-review › Journal article – Annual report year: 1994

Polyphenylenes from biosynthetic cis-dihydroxycyclohexadiene
Publication: Research - peer-review › Book chapter – Annual report year: 1994

Process implications of solvent interaction with microbial catalysts
Publication: Research - peer-review › Article in proceedings – Annual report year: 1994

The production of Pseudomonas putida for the hydroxylation of toluene to its cis-glycol
Publication: Research - peer-review › Journal article – Annual report year: 1994

Transketolase production for use as a catalyst for carbon-carbon bond formation
Publication: Research - peer-review › Article in proceedings – Annual report year: 1994

A comparison of stirred tank and membrane bioreactors for aqueous-organic biphasic enzymatic reactions
Publication: Research - peer-review › Article in proceedings – Annual report year: 1993
Enzyme catalysed carbon-carbon bond formation: use of transketolase from Escherichia coli
Publication: Research - peer-review › Journal article – Annual report year: 1993

In situ product removal as a tool for bioprocessing
Freeman, A., Woodley, J. & Lilly, M. D. 1993 In : BIO-TECHNOLOGY. 11, 9, p. 1007-1012
Publication: Research - peer-review › Journal article – Annual report year: 1993

The characterisation of fluorobenzene oxidation to fluorocatechol by Pseudomonas putida leading to bioreactor design
Publication: Research - peer-review › Article in proceedings – Annual report year: 1993

The scale-up of two-liquid phase microbially catalysed aromatic oxidations
Publication: Research - peer-review › Article in proceedings – Annual report year: 1993

Immobilised biocatalysts
Publication: Research - peer-review › Book chapter – Annual report year: 1992

Process aspects for the operation of two-liquid phase biotransformations: a comparison of a stirred tank reactor with a membrane bioreactor
Publication: Research - peer-review › Article in proceedings – Annual report year: 1992

Process engineering of two-liquid phase biocatalysis
Publication: Research - peer-review › Journal article – Annual report year: 1992

Production of naphthalene-cis-glycol by Pseudomonas putida in the presence of organic solvents
Publication: Research - peer-review › Journal article – Annual report year: 1992

Reactor engineering for multiphasic biotransformations
Publication: Research - peer-review › Article in proceedings – Annual report year: 1992

Evaluation of process options for the biotransformation of toluene to toluene cis-glycol by Pseudomonas putida
Publication: Research › Sound/Visual production (digital) – Annual report year: 1991

Lewis cell studies to determine reactor design data for two-liquid phase bacterial and enzymatic reactions
Publication: Research - peer-review › Journal article – Annual report year: 1991

Stirred tank two-liquid phase biocatalytic reactor studies: kinetics, evaluation and modelling of substrate mass transfer
Woodley, J., Cunnah, P. J. & Lilly, M. D. 1991 In : Biocatalysis. 5, p. 1-12
Publication: Research - peer-review › Journal article – Annual report year: 1991

The impact of biocatalyst selection on the design of aqueous-organic biphasic biocatalytic processes
A comparison of pig liver esterase and Bacillus subtilis as catalysts for the hydrolysis of menthyl acetate in stirred two-liquid phase reactors
Publication: Research - peer-review › Journal article – Annual report year: 1990

Extractive biocatalysis: the use of two-liquid phase biocatalytic reactors to assist product recovery
Woodley, J. & Lilly, M. D. 1990 In : Chemical Engineering Science. 45, 8, p. 2391-2396
Publication: Research - peer-review › Journal article – Annual report year: 1990

Stirred tank power input data for the scale-up of two-liquid phase biotransformations
Publication: Research - peer-review › Article in proceedings – Annual report year: 1990

Two-liquid phase biocatalysis: choice of phase ratio
Publication: Research - peer-review › Article in proceedings – Annual report year: 1990

Two-liquid phase biocatalysis: reactor design
Publication: Research - peer-review › Book chapter – Annual report year: 1990

Development of a KBS for biotransformation process design
Publication: Research - peer-review › Article in proceedings – Annual report year: 1989

Biological conversions involving water-insoluble organic compounds
Publication: Research - peer-review › Article in proceedings – Annual report year: 1986

Denaturation and inhibition studies in a two-liquid phase biocatalytic reaction: the hydrolysis of menthyl acetate by pig liver esterase
Publication: Research - peer-review › Article in proceedings – Annual report year: 1985

Biocatalytic reactions involving water-insoluble organic compounds
Publication: Research - peer-review › Article in proceedings – Annual report year: 1985

Projects:

Continuous Biocatalytic Alkene Hydrogenation
01/11/2017 → 31/10/2020
Project: PhD
Membrane-based in-situ product removal
Jaksland, A., Woodley, J., Pinelo, M. & Wan, Y.
01/09/2017 → 31/08/2020
Project: PhD

Chemical & Biochemical Sustainable Process Synthesis - Intensification
Garg, N., Woodley, J., Gani, R. & Kontogeorgis, G.
15/10/2016 → 14/10/2019
Project: PhD

Systematic computer aided methods and tools for lipids process technology
Ana Perederic, O., Woodley, J., Gani, R., Kontogeorgis, G. & Sarup, B.
15/09/2015 → 14/09/2018
Project: PhD

Development of Large-Scale Processes Using Alcohol Oxidases
Dias Gomes, M., Woodley, J. & Nordblad, M.
01/09/2015 → 31/08/2018
Project: PhD

Development of large-scale processes for baeyer-Villiger Biocatalysis
Meissner, M. P., Woodley, J. & Nordblad, M.
15/07/2015 → 14/07/2018
Project: PhD

Sustainable process design with process intensification
Frauzem, R., Gani, R., Woodley, J., Kontogeorgis, G., Bode, A. & Zondervan, E.
01/10/2014 → 14/12/2017
Project: PhD

Computer-aided Mixture and Blend Design
Cignitti, S., Woodley, J., Abildskov, J., Gernaey, K. V., Kontogeorgis, G., Camarda, K. V. & Kate, A. J. B. T.
15/09/2014 → 13/10/2017
Project: PhD

Modelling, Synthesis and Analysis of Biorefinery Networks
Bertran, M., Gani, R., Jensen, A. D. & Woodley, J.
01/09/2014 → 30/11/2017
Project: PhD

Modification of polymer surfaces to enhance enzyme activity and stability
Hoffmann, C., Daugaard, A. E., Pinelo, M., Woodley, J., Szabo, P., Gardossi, L. & Malkoch, M.
01/08/2014 → 31/07/2017
Project: PhD

Biooxidation reactor and process design
01/04/2014 → 12/07/2017
Project: PhD

enzyme-enhanced CO2 Absorption - rate-based modeling and pilot-scale validation
01/03/2014 → 25/08/2017
Project: PhD
Improved LCA Methodology and software tool for biorenewable products and processes
15/12/2013 → 25/01/2017
Project: PhD

Environmental and economical evaulation tools for novel bioproceses
01/12/2013 → 26/04/2017
Project: PhD

Experimental Implementation and model-based optimization for multi-enzyme processes
Abu, R., Woodley, J., Gernaey, K. V., Nordblad, M., Blazovic, Z. F. & Riva, S.
01/10/2013 → 15/03/2017
Project: PhD

Modeling and Synthesis of Pharmaceutical processes: Moving from Batch to Continuous Manufacturing
01/10/2013 → 16/11/2016
Project: PhD

Experimental evaluation of carbonic anhydrase as a biocatalyst for implementation in CO2 removal from flue gas
Deslauriers, M. G., Woodley, J., von Solms, N., Pinelo, M., Liese, A. & Wentzel, A.
15/09/2013 → 05/10/2017
Project: PhD

Design, control and analysis of intensified biochemical processes
01/09/2013 → 16/11/2016
Project: PhD

Generic model-based tailor-made design and analysis of biphasic reacting systems
Anantpinijwatna, A., Gani, R., Woodley, J., Huusom, J. K., Grosjean, C. & Manenti, F.
01/08/2013 → 24/10/2016
Project: PhD

Property Modelling and Process Design involving complex chemical systems
01/06/2013 → 18/08/2016
Project: PhD

Mixing and oxygen transfer processes in bioreactors
Nørregaard, A., Gernaey, K. V., van den Berg, F. W., Madsen, B., Stocks, S. M. & Woodley, J.
15/01/2013 → 30/06/2016
Project: PhD

Topology optimization in biocatalytic reactions using miniaturized reactors
01/11/2012 → 20/04/2016
Project: PhD

Mastering bioprocess Integration and Intensification across scales
01/10/2012 → 02/12/2015
Project: PhD
**Process intensification in biocatalytic reactions**  
01/09/2012 → 22/02/2016  
Project: PhD

**Bioprocess engineering for the application of P450s**  
01/02/2012 → 02/12/2015  
Project: PhD

**Enhanced Oil Recovery with Application of Enzymes**  
Khusainova, A., Shapiro, A., Woodley, J., Yan, W., Andersen, S. I. & Skauge, A.  
01/12/2011 → 26/05/2016  
Project: PhD

**Microalgae with increased synthesis or diminished breakdown of triacylglycerol for efficient biodiesel production**  
Favrholdt, C. E., Brandt, A. B., Gernaey, K. V., Gjermansen, C. & Woodley, J.  
01/12/2011 → 30/11/2013  
Project: PhD

**Process Technology for Oxidase-based Biocatalysis**  
Ramesh, H., Woodley, J., Krühne, U., Huusom, J. K., Archer, I. & Micheletti, M.  
01/10/2011 → 26/11/2014  
Project: PhD

**Control of Enzymatic Biodiesel Production**  
01/09/2011 → 26/11/2014  
Project: PhD

**Phenomena based process intensification**  
01/09/2011 → 04/02/2015  
Project: PhD

**Inhibition of gas hydrate formation by ice-structuring proteins**  
Perfeldt, C. M., von Solms, N., Woodley, J., Thomsen, K., Li, X. & Svartås, T. M.  
01/08/2011 → 10/11/2015  
Project: PhD

**Integrated microfactories for enzyme production**  
Bodla, V. K., Gernaey, K. V., Krühne, U., Woodley, J., Nordblad, M., Baganz, F. & Bouwes, D.  
01/03/2011 → 11/03/2015  
Project: PhD

**Reactor and Process Design for Multi-enzymatic Synthesis**  
Xue, R., Woodley, J., Meyer, A. S. & Mikkelsen, J. D.  
01/12/2010 → 01/11/2016  
Project: PhD

**Scale-up of biocatalytic cascade reactions for the synthesis of chiral amines**  
Janes, K., Gernaey, K. V., Tufvesson, P., Woodley, J., Krühne, U., Pedersen, L. H. & Vasic-Racki, D.  
01/12/2010 → 24/09/2014  
Project: PhD
Tailor-made design of chemical products: Bio-fuels and other blended products
Yunus, N. A. B., Gani, R., Gernaey, K. V., Woodley, J., Sin, G., Harper, P. M. & Kate, A. J. B. T.
15/07/2010 → 07/05/2014
Project: PhD

Process Considerations for Asymmetric Synthesis of Chiral Amines using Omega-Transaminase
Lima Afonso Neto, W., Woodley, J., Tufvesson, P., Krühne, U., Adlercreutz, P. & Howard, R. M.
01/06/2010 → 11/12/2013
Project: PhD

Guiding biocatalytic process improvements using engineering evaluation tools
01/03/2010 → 24/06/2013
Project: PhD

Modelling controlled release of substrate and removal of products in biocatalysis
01/11/2009 → 21/05/2013
Project: PhD

Population balance models and computational fluid dynamics: a model framework to describe heterogeneity in fermentors
01/11/2009 → 19/03/2013
Project: PhD

Evaluation of new process technology for lipase-catalyzed biodiesel production
Xu, Y., Woodley, J., Nordblad, M., Hobley, T. J., Basheer, S. & Hua, L.
01/03/2009 → 27/06/2012
Project: PhD

Green Chemistry based innovative process-operation synthesis and design
01/12/2008 → 18/04/2012
Project: PhD

Multi-enzyme process modelling
Andrade Santacoloma, P. D. G., Woodley, J., Gernaey, K. V., Sin, G., Jørgensen, S. B., Pedersen, S. & Vasic-Racki, D.
01/11/2008 → 27/06/2012
Project: PhD

Optimization of Tailor-made Chemicals from Renewable and non-renewable sources
Swangkotchakorn, C., Gani, R., Grunwaldt, J. & Woodley, J.
01/09/2008 → 01/02/2010
Project: PhD

Systematic Modelling, Simulation and Design of Intensified Bio-Chemical Processes
Roman Martinez, A., Gani, R., Woodley, J., Gernaey, K. V., Sales Cruz, A. M. & Wiebe, L.
01/08/2008 → 29/11/2011
Project: PhD

Catalytic Routes to Renewable Polymer Building Blocks
01/06/2008 → 14/12/2011
Project: PhD
Valu-added Chemicals from Biomass by Heterogeneons Catalysis
Voss, B., Woodley, J., Grunwaldt, J., Schjødt, N. C., Jensen, A. D., Jakobsson, N. & Patience, G. S.
01/05/2008 → 21/09/2011
Project: PhD

Bio-Petrochemicals
Gorbanev, Y., Riisager, A., Woodley, J., Fristrup, P., Grunwaldt, J. & Herbst, K.
01/04/2008 → 08/02/2012
Project: PhD

Membrane Assisted Enzyme Fractionation
15/03/2008 → 08/02/2012
Project: PhD

reactor and process design for chem.-enzymatic synthesis of FDA
Fu, W., Woodley, J., Riisager, A., Gernaey, K. V., Lye, G. J. & Wiebe, L.
01/03/2008 → 18/04/2012
Project: PhD

Process-Product Synthesis, Design and Analysis through the Group-Contribution Approach
01/04/2007 → 01/09/2010
Project: PhD

Enzymatic Opening of Diferulate Cross-Links in Plant Cell Walls
15/03/2007 → 15/06/2011
Project: PhD

Mechanisms of Enzymatic Inactivation in the Animal Feed Pelleting Process
Puder, K., Jensen, A. D., Jørgensen, C. I., Simonsen, O.; Woodley, J., Hansen, T. T. & Lee, G.
01/01/2007 → 17/06/2010
Project: PhD

Model-Based Computer Aided Framework for Design of Process Monitoring and Analysis Systems
Project: PhD

Continuous Culture Microbioreactors
01/05/2006 → 29/09/2010
Project: PhD

Micro-sensor based on Click Chemistry
Daugaard, A. E., Hvilsted, S., Woodley, J., Binder, W. H. & Hult, A.
01/03/2006 → 27/05/2009
Project: PhD

Controlled Release of Environmentally Friendly Antifouling Agents from Marine Coatings
Olsen, S. M., Kii, S., Dam-Johansen, K., Pedersen, L. T., Woodley, J., Swain, G. W. & Erik Weinell, C.
01/11/2005 → 01/04/2009
Project: PhD
Module Design and Performance in Microfiltration, Ultrafiltration and Membrane Contactors
Beier, S., Jonsson, G. E., Woodley, J., Aimar, P. & Kristensen, S.
01/09/2005 → 19/12/2008
Project: PhD

Scaleable Assembly of Protein Machines using Magnetic Adsorbents
Ottow, K. E., Hobley, T. J., Woodley, J., Regenberg, B. & Thomas, O. R. T.
Project: PhD

Influence of Formulation in Formation of Enzyme Granules by Sparay Drying
01/09/2004 → 28/01/2007
Project: PhD