

## Accepted Manuscript

Title: Techno-Economic Evaluation of an Ultrasound-Assisted Enzymatic Reactive Distillation Process

Authors: Matthias Wierschem, Mirko Skiborowski, Andrzej Górak, Riaan Schmuhl, Anton A. Kiss



PII: S0098-1354(17)30051-0  
DOI: <http://dx.doi.org/doi:10.1016/j.compchemeng.2017.01.042>  
Reference: CACE 5698

To appear in: *Computers and Chemical Engineering*

Received date: 8-10-2016  
Revised date: 20-1-2017  
Accepted date: 24-1-2017

Please cite this article as: Wierschem, Matthias., Skiborowski, Mirko., Górak, Andrzej., Schmuhl, Riaan., & Kiss, Anton A., Techno-Economic Evaluation of an Ultrasound-Assisted Enzymatic Reactive Distillation Process. *Computers and Chemical Engineering* <http://dx.doi.org/10.1016/j.compchemeng.2017.01.042>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

# Techno-Economic Evaluation of an Ultrasound-Assisted Enzymatic Reactive Distillation Process

*Matthias Wierschem,<sup>1,\*</sup> Mirko Skiborowski,<sup>1</sup> Andrzej Górak,<sup>1,2</sup>*

*Riaan Schmuhl,<sup>3</sup> Anton A. Kiss<sup>4,5</sup>*

<sup>1</sup> *Laboratory of Fluid Separations, TU Dortmund University, Emil-Figge-Str. 70, 44227 Dortmund, Germany*

<sup>2</sup> *Department of Process and Environmental Engineering, Łódź University of Technology, Stefana Żeromskiego 116, 90-924 Łódź, Poland*

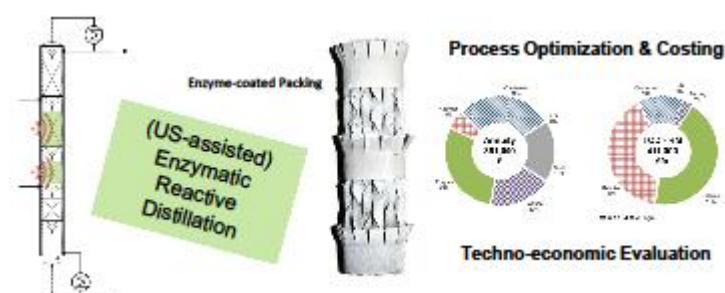
<sup>3</sup> *AkzoNobel, Industrial Chemicals, Competence Team Technology, Christian Neefestraat 2, 1077 WW Amsterdam, The Netherlands*

<sup>4</sup> *AkzoNobel Research, Development & Innovation, Process Technology SRG, Zutphenseweg 10, 7418 AJ Deventer, The Netherlands*

<sup>5</sup> *Sustainable Process Technology Group, Faculty of Science and Technology, University of Twente, PO Box 217, 7500 AE Enschede, The Netherlands*

\* *Corresponding author: mirko.skiborowski@bci.tu-dortmund.de; +49(0)231-755/2670*

Graphical abstract



Download English Version:

<https://daneshyari.com/en/article/4764616>

Download Persian Version:

<https://daneshyari.com/article/4764616>

[Daneshyari.com](https://daneshyari.com)