

Accepted Manuscript

Simultaneous glucose production from cellulose and fouling reduction using a magnetic responsive membrane reactor with superparamagnetic nanoparticles carrying cellulolytic enzymes

Abaynesh Yihdego Gebreyohannes, Madhav Dharmjeet, Tom Swusten, Matthias Mertens, Joran Verspreet, Thierry Verbiest, Christophe Courtin, Ivo F.J. Vankelecom

PII: S0960-8524(18)30650-3
DOI: <https://doi.org/10.1016/j.biortech.2018.05.002>
Reference: BITE 19907

To appear in: *Bioresource Technology*

Received Date: 7 March 2018
Revised Date: 27 April 2018
Accepted Date: 1 May 2018

Please cite this article as: Gebreyohannes, A.Y., Dharmjeet, M., Swusten, T., Mertens, M., Verspreet, J., Verbiest, T., Courtin, C., Vankelecom, I.F.J., Simultaneous glucose production from cellulose and fouling reduction using a magnetic responsive membrane reactor with superparamagnetic nanoparticles carrying cellulolytic enzymes, *Bioresource Technology* (2018), doi: <https://doi.org/10.1016/j.biortech.2018.05.002>

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.



Simultaneous glucose production from cellulose and fouling reduction using a magnetic responsive membrane reactor with superparamagnetic nanoparticles carrying cellulolytic enzymes

Abaynesh Yihdego Gebreyohannes^a, Madhav Dharmjeet^b, Tom Swusten^c, Matthias Mertens^a, Joran Verspreet, ^dThierry Verbiest^c, Christophe Courtin^d, Ivo F.J. Vankelecom^{a*}

^aCentre for Surface Chemistry and Catalysis KU Leuven Chem & Tech Celestijnenlaan 200F, Postbus 2461 3001 Leuven, Belgium

^bIndian Institute of Technology Roorkee, Roorkee-247667, India

^cMolecular Imaging and Photonics, Faculty of Bioengineering Sciences, KU Leuven, Celestijnenlaan 200d - box 2425, 3001 Leuven, Belgium

^dLaboratory of Food Chemistry and Biochemistry & Leuven Food Science and Nutrition Research Centre (LFoRCe), Faculty of Bioengineering Sciences, KU Leuven, Kasteelpark Arenberg 22, PO Box 2463, 3001 Leuven, Belgium

*corresponding author

Given name: Ivo. F.J.

Family name: Vankelecom

Centre for Surface Chemistry and Catalysis KU Leuven Chem & Tech Celestijnenlaan 200F, Postbus 2461 3001 Leuven, Belgium

E-mail: ivo.vankelecom@biw.kuleuven.be

Download English Version:

<https://daneshyari.com/en/article/7066680>

Download Persian Version:

<https://daneshyari.com/article/7066680>

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