

## Accepted Manuscript

Controlled retting of hemp fibres: Effect of hydrothermal pre-treatment and enzymatic retting on the mechanical properties of unidirectional hemp/epoxy composites

Ming Liu, Diogo Alexandre Santos Silva, Dinesh Fernando, Anne S Meyer, Bo Madsen, Geoffrey Daniel, Anders Thygesen

PII: S1359-835X(16)30178-6  
DOI: <http://dx.doi.org/10.1016/j.compositesa.2016.06.003>  
Reference: JCOMA 4329

To appear in: *Composites: Part A*

Received Date: 24 March 2016  
Revised Date: 2 June 2016  
Accepted Date: 4 June 2016



Please cite this article as: Liu, M., Silva, D.A.S., Fernando, D., Meyer, A.S., Madsen, B., Daniel, G., Thygesen, A., Controlled retting of hemp fibres: Effect of hydrothermal pre-treatment and enzymatic retting on the mechanical properties of unidirectional hemp/epoxy composites, *Composites: Part A* (2016), doi: <http://dx.doi.org/10.1016/j.compositesa.2016.06.003>

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.

# Controlled retting of hemp fibres: Effect of hydrothermal pre-treatment and enzymatic retting on the mechanical properties of unidirectional hemp/epoxy composites

Ming Liu<sup>a</sup>, Diogo Alexandre Santos Silva<sup>a</sup>, Dinesh Fernando<sup>b</sup>, Anne S Meyer<sup>a</sup>, Bo Madsen<sup>c</sup>, Geoffrey Daniel<sup>b</sup>, Anders Thygesen<sup>a,\*</sup>

<sup>a</sup> Center for Bioprocess Engineering, Department of Chemical and Biochemical Engineering, Technical University of Denmark, 2800 Kongens Lyngby, Denmark.

<sup>b</sup> Department of Forest Products/Wood Science, Swedish University of Agricultural Sciences, Vallvägen 9D, 750-07 Uppsala, Sweden.

<sup>c</sup> Section of Composites and Materials Mechanics, Department of Wind Energy, Technical University of Denmark, Frederiksborgvej 399, 4000 Roskilde, Denmark.

\*Corresponding author

Address as above, Tel.: +45 21326303; E-mail address: athy@kt.dtu.dk

Download English Version:

<https://daneshyari.com/en/article/7890586>

Download Persian Version:

<https://daneshyari.com/article/7890586>

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