Accepted Manuscript

Title: A comparative study on the preparation and characterization of cellulose nanocrystals with various polymorphs

Authors: Jie Gong, Lihuan Mo, Jun Li

PII: S0144-8617(18)30425-9

DOI: https://doi.org/10.1016/j.carbpol.2018.04.039

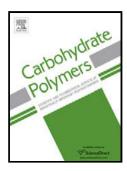
Reference: CARP 13493

To appear in:

Received date: 27-11-2017 Revised date: 4-3-2018 Accepted date: 9-4-2018

Please cite this article as: Gong, Jie., Mo, Lihuan., & Li, Jun., A comparative study on the preparation and characterization of cellulose nanocrystals with various polymorphs. *Carbohydrate Polymers* https://doi.org/10.1016/j.carbpol.2018.04.039

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.



ACCEPTED MANUSCRIPT

A comparative study on the preparation and characterization of cellulose nanocrystals with various polymorphs

Jie Gong^{a,b}, Lihuan Mo^{a,b}, Jun Li^{a,b,*}

a, State Key Laboratory of Pulp and Paper Engineering, South China University of Technology, Guangzhou 510640, China

b, United Lab of Plant Resources Chemistry and Chemical Engineering, South China University of Technology, Guangzhou 510640, China

Corresponding author at: State Key Laboratory of Pulp and Paper Engineering, South China University of Technology, Guangzhou 510640, China. Tel.: +86 13503012206; E-mail addresses: ppjunli@scut.edu.cn

Highlights

- Cellulose III nanocrystals were successfully obtained.
- Cellulose II nanocrystals obtained by different methods were systematically compared.
- The morphology of CNCs was related to its fashion of cellulose chains arrangement.

Download English Version:

https://daneshyari.com/en/article/7782001

Download Persian Version:

https://daneshyari.com/article/7782001

<u>Daneshyari.com</u>