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Authors: Jie Gong, Lihuan Mo, Jun Li

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

Jie Gong<sup>a,b</sup>, Lihuan Mo<sup>a,b</sup>, Jun Li<sup>a,b,\*</sup>

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.

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