Accepted Manuscript

Title: Cellulose nanocrystal isolation from tomato peels and

assembled nanofibers

Author: Feng Jiang You-Lo Hsieh

PII: S0144-8617(14)01267-3

DOI: http://dx.doi.org/doi:10.1016/j.carbpol.2014.12.064

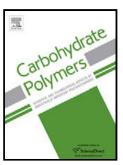
Reference: CARP 9567

To appear in:

Received date: 3-7-2014 Accepted date: 22-12-2014

Please cite this article as: Jiang, F., and Hsieh, Y.-L., Cellulose nanocrystal isolation from tomato peels and assembled nanofibers, *Carbohydrate Polymers* (2015), http://dx.doi.org/10.1016/j.carbpol.2014.12.064

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

Cellulose nanocrystal isolation from tomato peels and assembled nanofibers

Feng Jiang, You-Lo Hsieh*

- Tomato peel cellulose was isolated by acidified $NaClO_2/KOH$ or Cl-free $NaOH/H_2O_2$.
- Cellulose nanocrystals (CNCs) were 41:2:1 length:width:thickness ratio.
- CNCs self-assembled into highly crystalline (80.8%) fibrous mass.
- Uniformly nanofibers (42 nm width) were assembled from 1:1 tert-butanol/water.

Download English Version:

https://daneshyari.com/en/article/7789226

Download Persian Version:

https://daneshyari.com/article/7789226

<u>Daneshyari.com</u>