### Accepted Manuscript

Preparation of cellulose nanocrystal-reinforced keratin bioadsorbent for highly effective and recyclable removal of dyes from aqueous solution

Kaili Song, Helan Xu, Lan Xu, Kongliang Xie, Yiqi Yang

PII: S0960-8524(17)30139-6

DOI: http://dx.doi.org/10.1016/j.biortech.2017.01.070

Reference: BITE 17595

To appear in: Bioresource Technology

Received Date: 28 November 2016 Revised Date: 16 January 2017 Accepted Date: 22 January 2017



Please cite this article as: Song, K., Xu, H., Xu, L., Xie, K., Yang, Y., Preparation of cellulose nanocrystal-reinforced keratin bioadsorbent for highly effective and recyclable removal of dyes from aqueous solution, *Bioresource Technology* (2017), doi: http://dx.doi.org/10.1016/j.biortech.2017.01.070

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**

# Preparation of cellulose nanocrystal-reinforced keratin bioadsorbent for highly effective and recyclable removal of dyes from aqueous solution

Kaili Song, a,b Helan Xu,b Lan Xu,c Kongliang Xie, Yiqi Yang b,d,e,\*

<sup>a</sup>Key Laboratory of Science and Technology of Eco-Textiles, Ministry of Education, College of Chemistry, Chemical Engineering and Biotechnology, Donghua University, Shanghai 201620, China

<sup>b</sup>Department of Textiles, Merchandising and Fashion Design, 234, HECO Building, University of Nebraska-Lincoln, Lincoln, NE 68583-0802, United States

<sup>c</sup>Department of Agronomy and Horticulture, University of Nebraska-Lincoln, Lincoln, NE 68583-0915, United States

<sup>d</sup>Department of Biological Systems Engineering, 234, HECO Building, University of Nebraska-Lincoln, Lincoln, NE 68583-0802, United States

<sup>e</sup>Nebraska Center for Materials and Nanoscience, 234, HECO Building, University of Nebraska-Lincoln, Lincoln, NE 68583-0802, United States

\* Corresponding Author. Tel: +001 402 472 5197; Fax: +001 402 472 0640;

E-mail: yyang2@unl.edu

#### Download English Version:

# https://daneshyari.com/en/article/4997556

Download Persian Version:

https://daneshyari.com/article/4997556

<u>Daneshyari.com</u>