## Accepted Manuscript

Title: Recycled Chitosan Nanofibril as an Effective Cu(II), Pb(II) and Cd(II) Ionic Chelating Agent: Adsorption and Desorption Performance

Author: Dagang Liu Zehui Li Yi Zhu Li. Zhenxuan Rakesh

Kumar

PII: S0144-8617(14)00375-0

DOI: http://dx.doi.org/doi:10.1016/j.carbpol.2014.04.018

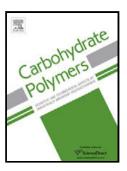
Reference: CARP 8779

To appear in:

Received date: 5-2-2014 Revised date: 8-4-2014 Accepted date: 10-4-2014

Please cite this article as: Liu, D., Li, Z., Zhu, Y., Zhenxuan, Li., & Kumar, R.,Recycled Chitosan Nanofibril as an Effective Cu(II), Pb(II) and Cd(II) Ionic Chelating Agent: Adsorption and Desorption Performance, *Carbohydrate Polymers* (2014), http://dx.doi.org/10.1016/j.carbpol.2014.04.018

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

1	Highlights
2	• Nanofibrous chitosan exhibited cross-linked and multi-porous networks
3	$ullet$ $q_{ m max}$ of heavy metal ions loaded by CSNF was much higher than reported chitosan
4	sorbents.
5	• CSNF could be recycled at about 80% recovery level after three sorption-desorption
6	cycles
7	• Cu(II) was the most competitive ions to be chelated by CSNF
8	
9	
10	

## Download English Version:

## https://daneshyari.com/en/article/7791644

Download Persian Version:

https://daneshyari.com/article/7791644

<u>Daneshyari.com</u>