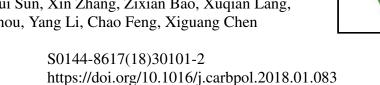
Accepted Manuscript

Title: Reinforcement of thermoplastic chitosan hydrogel using chitin whiskers optimized with response surface methodology

Authors: Guohui Sun, Xin Zhang, Zixian Bao, Xuqian Lang, Zhongzheng Zhou, Yang Li, Chao Feng, Xiguang Chen

CARP 13233



To appear in:

Reference:

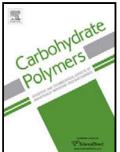
PII:

DOI:

| Received date: | 28-7-2017 |
|----------------|-----------|
| Revised date: | 23-1-2018 |
| Accepted date: | 24-1-2018 |

Please cite this article as: Sun, Guohui., Zhang, Xin., Bao, Zixian., Lang, Xuqian., Zhou, Zhongzheng., Li, Yang., Feng, Chao., & Chen, Xiguang., Reinforcement of thermoplastic chitosan hydrogel using chitin whiskers optimized with response surface methodology. Carbohydrate Polymers https://doi.org/10.1016/j.carbpol.2018.01.083

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

Reinforcement of thermoplastic chitosan hydrogel using chitin whiskers optimized with response surface methodology

Guohui Sun ^a, Xin Zhang ^a, Zixian Bao ^{a, b}, Xuqian Lang ^a, Zhongzheng Zhou ^a, Yang Li ^a, Chao Feng ^{a, *}, Xiguang Chen ^{a, *}

^a College of Marine Life Science, Ocean University of China, Qingdao 266003, PR, China.

^b Qingdao Institute of Bioenergy and Bioprocess Technology, Chinese Academy of Science, Qingdao 266101, PR, China.

* Corresponding authors: Xiguang Chen, Professor, 5# Yushan Road, College of Marine Life Science, Ocean University of China, Qingdao 266003, China. Tel.: +86 0532 82032586, Fax: +86 0532 82032586, E-mail: xgchen@ouc.edu.cn; Chao Feng,
5# Yushan Road, College of Marine Life Science, Ocean University of China,
Qingdao 266003, China. Tel.: +86 0532 82032586, Fax: +86 0532 82032586, E-mail: fengchao@ouc.edu.cn

Highlights

- Chitosan and chitin whiskers were used to prepare the thermo-responsive complex hydrogels.
- The fabrication of complex hydrogel was optimized by response surface

Download English Version:

https://daneshyari.com/en/article/7783289

Download Persian Version:

https://daneshyari.com/article/7783289

Daneshyari.com