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Title: Characterization of cellulose from banana pseudo-stem by heterogeneous liquefaction

Author: Wei Li Yucang Zhang Jihui Li Yijun Zhou Ruisong Li Wei Zhou



PII: S0144-8617(15)00575-5
DOI: <http://dx.doi.org/doi:10.1016/j.carbpol.2015.06.066>
Reference: CARP 10057

To appear in:

Received date: 4-4-2015
Revised date: 19-6-2015
Accepted date: 20-6-2015

Please cite this article as: Li, W., Zhang, Y., Li, J., Zhou, Y., Li, R., and Zhou, W., Characterization of cellulose from banana pseudo-stem by heterogeneous liquefaction, *Carbohydrate Polymers* (2015), <http://dx.doi.org/10.1016/j.carbpol.2015.06.066>

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1 Highlights

- 2 • Cellulose fibers were obtained based on sodium chlorite method and liquefaction.
- 3 • The percentage of cellulose can be controlled by liquefaction time.
- 4 • The cellulose fibers' crystallinity is high.
- 5 • The cellulose fibers exhibit enhanced thermal properties and surface area.
- 6 • The cellulose fibers may be suitable as reinforcing elements in biocomposite material.

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