

Accepted Manuscript

Manufacturing, mechanical and flame retardant properties of poly(lactic acid) biocomposites based on calcium magnesium phytate and carbon nanotubes

Wei Yang, Benjamin Tawiah, Chao Yu, Yi-Fan Qian, Li-Li Wang, Anthony Chun-Yin Yuen, San-E Zhu, En-Zhu Hu, Timothy Bo-Yuan Chen, Bin Yu, Hong-Dian Lu, Guan Heng Yeoh, Xin Wang, Lei Song, Yuan Hu

PII: S1359-835X(18)30174-X
DOI: <https://doi.org/10.1016/j.compositesa.2018.04.027>
Reference: JCOMA 5021

To appear in: *Composites: Part A*

Received Date: 16 December 2017
Revised Date: 24 April 2018
Accepted Date: 25 April 2018

Please cite this article as: Yang, W., Tawiah, B., Yu, C., Qian, Y-F., Wang, L-L., Chun-Yin Yuen, A., Zhu, S-E., Hu, E-Z., Bo-Yuan Chen, T., Yu, B., Lu, H-D., Heng Yeoh, G., Wang, X., Song, L., Hu, Y., Manufacturing, mechanical and flame retardant properties of poly(lactic acid) biocomposites based on calcium magnesium phytate and carbon nanotubes, *Composites: Part A* (2018), doi: <https://doi.org/10.1016/j.compositesa.2018.04.027>

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.



**Manufacturing, mechanical and flame retardant properties of poly(lactic acid)
biocomposites based on calcium magnesium phytate and carbon nanotubes**

Wei Yang ^{a,c,*}, Benjamin Tawiah ^{b,1}, Chao Yu ^a, Yi-Fan Qian ^a, Li-Li Wang ^a, Anthony
Chun-Yin Yuen ^c, San-E Zhu ^a, En-Zhu Hu ^a, Timothy Bo-Yuan Chen ^c, Bin Yu ^{b,**},
Hong-Dian Lu ^a, Guan Heng Yeoh ^c, Xin Wang ^d, Lei Song ^d, Yuan Hu ^d

^a *Department of Chemical and Materials Engineering, Hefei University, 99 Jinxiu Avenue,
Hefei, Anhui, 230601, People's Republic of China*

^b *Institute of Textiles and Clothing, The Hong Kong Polytechnic University, SAR 999077,
Hong Kong, People's Republic of China*

^c *School of Mechanical and Manufacturing Engineering, University of New South Wales,
Sydney, NSW 2052, Australia*

^d *State Key Laboratory of Fire Science, University of Science and Technology of China, 96
Jinzhai Road, Hefei, Anhui 230026, People's Republic of China*

* Corresponding author. Tel: +86-551-62158394.

E-mail address: weyang@ustc.edu.cn.

** Corresponding author. Tel: +86-852- 65291052.

E-mail address: yubin2-c@my.cityu.edu.hk.

¹ These authors contributed equally to this work (co-first author).

ABSTRACT

A bio-flame retardant, calcium magnesium phytate (CaMg-Ph), was synthesized via the

Download English Version:

<https://daneshyari.com/en/article/7889526>

Download Persian Version:

<https://daneshyari.com/article/7889526>

[Daneshyari.com](https://daneshyari.com)