## Accepted Manuscript

Alginate-based nanocomposite films reinforced with halloysite nanotubes functionalized by alkali treatment and zinc oxide nanoparticles



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PII: S0141-8130(18)32245-1

DOI: doi:10.1016/j.ijbiomac.2018.07.026

Reference: BIOMAC 10070

To appear in: International Journal of Biological Macromolecules

Received date: 10 May 2018 Revised date: 14 June 2018 Accepted date: 8 July 2018

Please cite this article as: Shiv Shankar, Stefan Kasapis, Jong-Whan Rhim, Alginate-based nanocomposite films reinforced with halloysite nanotubes functionalized by alkali treatment and zinc oxide nanoparticles. Biomac (2018), doi:10.1016/j.ijbiomac.2018.07.026

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## **ACCEPTED MANUSCRIPT**

Alginate-based nanocomposite films reinforced with halloysite nanotubes functionalized by alkali treatment and zinc oxide nanoparticles

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Running title: Preparation of alginate/AT-Hal/ZnONP nanocomposite films

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