

# Accepted Manuscript

Green synthesis of silver nanoparticles with bagasse for colorimetric detection of cysteine in serum samples

Zuguang Shen, Guocheng Han, Chuanfu Liu, Xiaoying Wang, Runcang Sun



PII: S0925-8388(16)31708-X

DOI: [10.1016/j.jallcom.2016.05.348](https://doi.org/10.1016/j.jallcom.2016.05.348)

Reference: JALCOM 37868

To appear in: *Journal of Alloys and Compounds*

Received Date: 18 January 2016

Revised Date: 17 March 2016

Accepted Date: 31 May 2016

Please cite this article as: Z. Shen, G. Han, C. Liu, X. Wang, R. Sun, Green synthesis of silver nanoparticles with bagasse for colorimetric detection of cysteine in serum samples, *Journal of Alloys and Compounds* (2016), doi: 10.1016/j.jallcom.2016.05.348.

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.

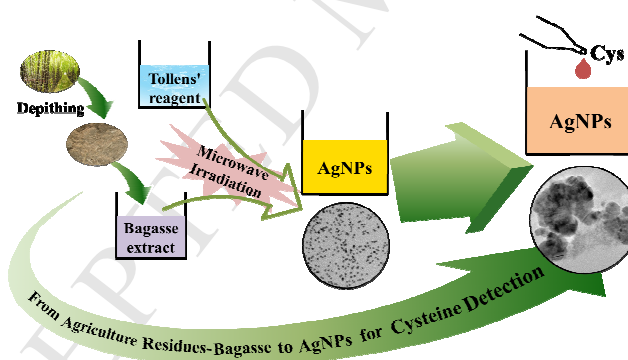
# Green Synthesis of Silver Nanoparticles with Bagasse for Colorimetric Detection of Cysteine in Serum Samples

Zuguang Shen<sup>1</sup>, Guocheng Han<sup>1</sup>, Chuanfu Liu<sup>1</sup>, Xiaoying Wang<sup>1\*</sup>, Runcang Sun<sup>1,2</sup>

<sup>1</sup> State Key Laboratory of Pulp & Paper Engineering, South China University of Technology, Guangzhou 510640, China.

<sup>2</sup> China Beijing Key Laboratory of Lignocellulosic Chemistry, Beijing Forestry University, Beijing 100083, China.

Bagasse extract acting as reducing and stabilizing agent was utilized to prepare AgNPs with Tollens' reagent under microwave irradiation, and the obtained bagasse extract/AgNPs composite showed highly selective and sensitive detection for Cys.



Green synthesis of silver nanoparticles with bagasse for colorimetric detection on Cysteine

Download English Version:

<https://daneshyari.com/en/article/7996232>

Download Persian Version:

<https://daneshyari.com/article/7996232>

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