

## Accepted Manuscript

Title: Ultrasensitive and selective non-enzymatic electrochemical glucose sensor based on hybrid material of graphene sheet/graphene nanoribbon/nickel nanoparticle

Authors: J. Lavanya, J. Nithyaa, J. Saravanakumar, N. Gomathi



PII: S0025-5408(17)31120-0  
DOI: <https://doi.org/10.1016/j.materresbull.2017.10.020>  
Reference: MRB 9627

To appear in: *MRB*

Received date: 23-3-2017  
Revised date: 7-9-2017  
Accepted date: 13-10-2017

Please cite this article as: J.Lavanya, J.Nithyaa, J.Saravanakumar, N.Gomathi, Ultrasensitive and selective non-enzymatic electrochemical glucose sensor based on hybrid material of graphene sheet/graphene nanoribbon/nickel nanoparticle, Materials Research Bulletin <https://doi.org/10.1016/j.materresbull.2017.10.020>

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.

**Ultrasensitive and selective non-enzymatic electrochemical glucose sensor based on hybrid material of graphene sheet/graphene nanoribbon/ nickel nanoparticle**

*J. Lavanya<sup>a</sup>, J. Nithyaa<sup>a</sup>, J. Saravanakumar<sup>b,c,d</sup> and N. Gomathi<sup>a\*</sup>*

*<sup>a</sup>Department of Chemistry, Indian Institute of space science and Technology, Thiruvananthapuram, Kerala, 695547, India*

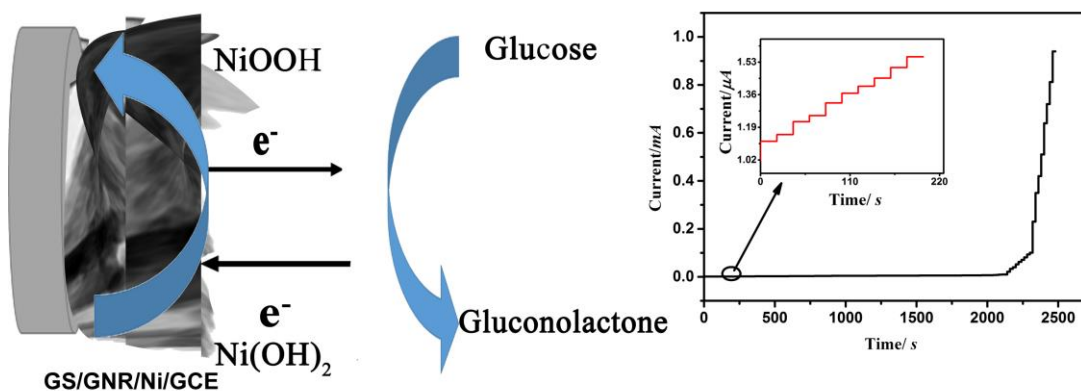
*<sup>b</sup>Department for Management of Science and Technology Development, Ton Duc Thang University, Ho Chi Minh City, Vietnam*

*<sup>c</sup> Faculty of Applied Sciences, Ton Duc Thang University, Ho Chi Minh City, Vietnam*

*<sup>d</sup>IJN-UTM Cardiovascular Engineering Centre, Faculty of Biosciences and Medical Engineering, Universiti Teknologi Malaysia, Skudai 81300, Johor, Malaysia*

\*Corresponding author. E-mail: [sivakumar.gomathi@gmail.com](mailto:sivakumar.gomathi@gmail.com), [gomathi@iist.ac.in](mailto:gomathi@iist.ac.in)  
(Dr.N.Gomathi) Tel. +91-471-2568534.

**GRAPHICAL ABSTRACT**



Download English Version:

<https://daneshyari.com/en/article/7905193>

Download Persian Version:

<https://daneshyari.com/article/7905193>

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