

Accepted Manuscript

Title: Influence of mesoporous defect induced mixed-valent NiO (Ni²⁺/Ni³⁺)-TiO₂ nanocomposite for non-enzymatic glucose biosensors

Authors: Saravanan Rajendran, Devaraj Manoj, Kumar Raju, Dionysios. D. Dionysiou, Mu. Naushad, F. Gracia, Lorena Cornejo, M.A. Gracia-Pinilla, Tansir Ahamad



PII: S0925-4005(18)30450-7
DOI: <https://doi.org/10.1016/j.snb.2018.02.165>
Reference: SNB 24260

To appear in: *Sensors and Actuators B*

Received date: 30-11-2017
Revised date: 13-2-2018
Accepted date: 23-2-2018

Please cite this article as: Saravanan Rajendran, Devaraj Manoj, Kumar Raju, Dionysios.D.Dionysiou, Mu.Naushad, F.Gracia, Lorena Cornejo, M.A.Gracia-Pinilla, Tansir Ahamad, Influence of mesoporous defect induced mixed-valent NiO (Ni²⁺/Ni³⁺)-TiO₂ nanocomposite for non-enzymatic glucose biosensors, Sensors and Actuators B: Chemical <https://doi.org/10.1016/j.snb.2018.02.165>

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.

Influence of mesoporous defect induced mixed-valent NiO (Ni²⁺/Ni³⁺)-TiO₂ nanocomposite for non-enzymatic glucose biosensors

Saravanan Rajendran,^a Devaraj Manoj,^b Kumar Raju,^c Dionysios. D. Dionysiou,^d Mu. Naushad,^{e,*}, F. Gracia,^{f**} Lorena Cornejo,^a M. A. Gracia-Pinilla,^{g, h}, Tansir Ahamad^e

^a*Escuela Universitaria de Ingeniería Mecánica (EUDIM), Universidad de Tarapacá, Avda. General Velásquez 1775, Arica, Chile*

^b*Department of Chemistry, School of Advanced Sciences, Vellore Institute of Technology, Vellore-632014, India.*

^c*Energy Materials, Materials Science and Manufacturing, Council for Scientific and Industrial Research (CSIR), Pretoria 0001, South Africa*

^d*Environmental Engineering and Science Program, Department of Chemical and Environmental Engineering (ChEE), 705 Engineering Research Center, University of Cincinnati, USA*

^e*Department of Chemistry, College of Science, Building#5, King Saud University, Riyadh, Saudi Arabia*

^f*Department of Chemical Engineering, Biotechnology and Materials, University of Chile, Beauchef 851, 6th floor, Santiago, Chile.*

^g*Universidad Autónoma de Nuevo León, Facultad de Ciencias Físico-Matemáticas, Av. Universidad, Cd. Universitaria, San Nicolás de los Garza, NL, México*

^h*Universidad Autónoma de Nuevo León, Centro de Investigación en Innovación y Desarrollo en Ingeniería y Tecnología, PIIT, Apodaca, N.L., México*

Corresponding Authors:

Dr. Mu. Naushad (mnaushad@ksu.edu.sa)

Dr. F. Gracia (fgracia@ing.uchile.cl)

Download English Version:

<https://daneshyari.com/en/article/7140149>

Download Persian Version:

<https://daneshyari.com/article/7140149>

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