Accepted Manuscript

Title: Effect of Au nanoparticle size on the gas-sensing performance of *p*-CuO nanowires

Author: Jun-Seong Lee Akash Katoch Jae-Hun Kim Sang

Sub Kim

PII: S0925-4005(15)30215-X

DOI: http://dx.doi.org/doi:10.1016/j.snb.2015.08.037

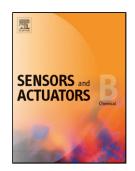
Reference: SNB 18892

To appear in: Sensors and Actuators B

Received date: 25-4-2015 Revised date: 11-7-2015 Accepted date: 9-8-2015

Please cite this article as: J.-S. Lee, A. Katoch, J.-H. Kim, S.S. Kim, Effect of Au nanoparticle size on the gas-sensing performance of *p*-CuO nanowires, *Sensors and Actuators B: Chemical* (2015), http://dx.doi.org/10.1016/j.snb.2015.08.037

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.



ACCEPTED MANUSCRIPT

Au NPs-functionalized networked p-CuO nanowires were grown.

Au functionalization greatly enhanced the gas-sensing abilities of the CuO nanowires.

The CuO NWs showed the best response at an optimized Au size.

The size optimization of the metal nanoparticles is essential for superior sensing properties of nanowires.

Download English Version:

https://daneshyari.com/en/article/7145090

Download Persian Version:

https://daneshyari.com/article/7145090

<u>Daneshyari.com</u>