

Accepted Manuscript

Title: Hybrid Nanoarchitecturing of Hierarchical Zinc Oxide Wool-Ball-Like Nanostructures with Multi-Walled Carbon Nanotubes for Achieving Sensitive and Selective Detection of Sulfur Dioxide

Authors: Ni Luh Wulan Septiani, Yusuf Valentino Kaneti, Brian Yulianto, Nugraha, Hermawan Kresno Dipojono, Toshiaki Takei, Jungmok You, Yusuke Yamauchi



PII: S0925-4005(18)30088-1
DOI: <https://doi.org/10.1016/j.snb.2018.01.088>
Reference: SNB 23937

To appear in: *Sensors and Actuators B*

Received date: 14-10-2017
Revised date: 29-11-2017
Accepted date: 5-1-2018

Please cite this article as: Ni Luh Wulan Septiani , Yusuf Valentino Kaneti, Brian Yulianto, Nugraha, Hermawan Kresno Dipojono, Toshiaki Takei, Jungmok You, Yusuke Yamauchi, Hybrid Nanoarchitecturing of Hierarchical Zinc Oxide Wool-Ball-Like Nanostructures with Multi-Walled Carbon Nanotubes for Achieving Sensitive and Selective Detection of Sulfur Dioxide, *Sensors and Actuators B: Chemical* <https://doi.org/10.1016/j.snb.2018.01.088>

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.

Hybrid Nanoarchitecturing of Hierarchical Zinc Oxide Wool-Ball-Like Nanostructures with Multi-Walled Carbon Nanotubes for Achieving Sensitive and Selective Detection of Sulfur Dioxide

Ni Luh Wulan Septiani,^{1,2,+} Yusuf Valentino Kaneti^{3,*,+} Brian Yulianto,^{1,4,*} Nugraha,^{1,4} Hermawan Kresno Dipojono,⁴ Toshiaki Takei,³ Jungmok You,⁵ Yusuke Yamauchi^{3,5,6,7,*}

¹ Advanced Functional Materials (AFM) Laboratory, Engineering Physics, Institute of Technology Bandung, Bandung 40132, Indonesia.

² Welding Engineering Department, Institute of Technology Science Bandung, Cikarang Pusat, Bekasi 17530, Indonesia.

³ World Premier International (WPI) Research Center for Materials Nanoarchitectonics (MANA), National Institute for Materials Science (NIMS), 1-1 Namiki, Tsukuba, Ibaraki 305-0044, Japan.

⁴ Research Center for Nanosciences and Nanotechnology (RCNN), Institute of Technology Bandung, Bandung 40132, Indonesia.

⁵ Department of Plant & Environmental New Resources, Kyung Hee University, 1732 Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do 446-701, South Korea

⁶ Australian Institute of Innovative Materials (AIIM), University of Wollongong, North Wollongong, New South Wales 2500, Australia.

⁷ School of Chemical Engineering & Australian Institute for Bioengineering and Nanotechnology (AIBN), The University of Queensland, Brisbane, QLD 4072, Australia

⁺These authors contributed equally to this work

Emails: brian@tf.itb.ac.id; KANETI.Valentino@nims.go.jp; Yamauchi.Yusuke@nims.go.jp

Download English Version:

<https://daneshyari.com/en/article/7140535>

Download Persian Version:

<https://daneshyari.com/article/7140535>

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