Accepted Manuscript

Title: Highly Discriminative and Sensitive Detection of Volatile Organic Compounds for Monitoring Indoor Air Quality using Pure and Au-loaded 2D In₂O₃ Inverse Opal Thin Films

Authors: Chul-Soon Lee, Zhengfei Dai, Do Hong Kim, Hua-Yao Li, Young-Moo Jo, Bo-Young Kim, Hyung-Gi Byun, In-Sung Hwang, Jong-Heun Lee

PII: S0925-4005(18)31116-X

DOI: https://doi.org/10.1016/j.snb.2018.06.011

Reference: SNB 24848

To appear in: Sensors and Actuators B

Received date: 2-2-2018 Revised date: 25-5-2018 Accepted date: 2-6-2018

Please cite this article as: Lee C-Soon, Dai Z, Kim DH, Li H-Yao, Jo Y-Moo, Kim B-Young, Byun H-Gi, Hwang I-Sung, Lee J-Heun, Highly Discriminative and Sensitive Detection of Volatile Organic Compounds for Monitoring Indoor Air Quality using Pure and Au-loaded 2D In₂O₃ Inverse Opal Thin Films, *Sensors and Actuators: B. Chemical* (2018), https://doi.org/10.1016/j.snb.2018.06.011

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

Highly Discriminative and Sensitive Detection of Volatile Organic Compounds for Monitoring Indoor Air Quality using Pure and Au-loaded 2D In₂O₃ Inverse Opal Thin Films

Chul-Soon Lee^a, Zhengfei Dai^b, Do Hong Kim^a, Hua-Yao Li^a, Young-Moo Jo^a, Bo-Young Kim^a, Hyung-Gi Byun^c, In-Sung Hwang^d, Jong-Heun Lee^{a*}

^aDepartment of Materials Science and Engineering, Korea University, Seoul 02841, Republic of Korea

^bState Key Laboratory for Mechanical Behavior of Materials, Xi'an Jiaotong University, Xi'an, Shaanxi 710049, People's Republic of China

^cDivision of Electronics, Information & Communication Engineering, Kangwon National University, 346, Jungang-ro, Samcheok-si, Gangwon-do, 25913, Korea

^dLG electronics Materials & Production engineering Research Institute, Magokjungang 10-ro, Gangseo-gu, Seoul 07796, Republic of Korea

*Author to whom correspondence should be addressed

Email: jongheun@korea.ac.kr; Fax: +82-2-928-3584; Tel: +82-2-3290-3282

Graphical abstract

Download English Version:

https://daneshyari.com/en/article/7138936

Download Persian Version:

https://daneshyari.com/article/7138936

<u>Daneshyari.com</u>