

## Accepted Manuscript

Title: Enhanced acetone sensing properties of titanium dioxide nanoparticles with a sub-ppm detection limit

Authors: S.T. Navale, Z. Yang, Chenshitao Liu, P. Cao, V.B. Patil, N.S. Ramgir, R.S. Mane, F.J. Stadler



PII: S0925-4005(17)31623-4  
DOI: <http://dx.doi.org/10.1016/j.snb.2017.08.186>  
Reference: SNB 23053

To appear in: *Sensors and Actuators B*

Received date: 4-5-2017  
Revised date: 31-7-2017  
Accepted date: 25-8-2017

Please cite this article as: S.T.Navale, Z.Yang, Chenshitao Liu, P.Cao, V.B.Patil, N.S.Ramgir, R.S.Mane, F.J.Stadler, Enhanced acetone sensing properties of titanium dioxide nanoparticles with a sub-ppm detection limit, *Sensors and Actuators B: Chemical* <http://dx.doi.org/10.1016/j.snb.2017.08.186>

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.

# Enhanced acetone sensing properties of titanium dioxide nanoparticles with a sub-ppm detection limit

S. T. Navale<sup>a,b</sup>, Z. Yang<sup>a</sup>, Chenshitao Liu<sup>a</sup>, P. Cao<sup>a</sup>, V. B. Patil<sup>c</sup>, N. S. Ramgir<sup>d</sup>, R. S. Mane<sup>e</sup>, F. J. Stadler<sup>a\*</sup>

<sup>a</sup>College of Materials Science and Engineering, Shenzhen Key Laboratory of Polymer Science and Technology, Guangdong Research Center for Interfacial Engineering of Functional Materials, Nanshan District Key Laboratory for Biopolymers and Safety Evaluation, Shenzhen University, Shenzhen, 518060, PR China. (\*E-mail: fjstadler@szu.edu.cn)

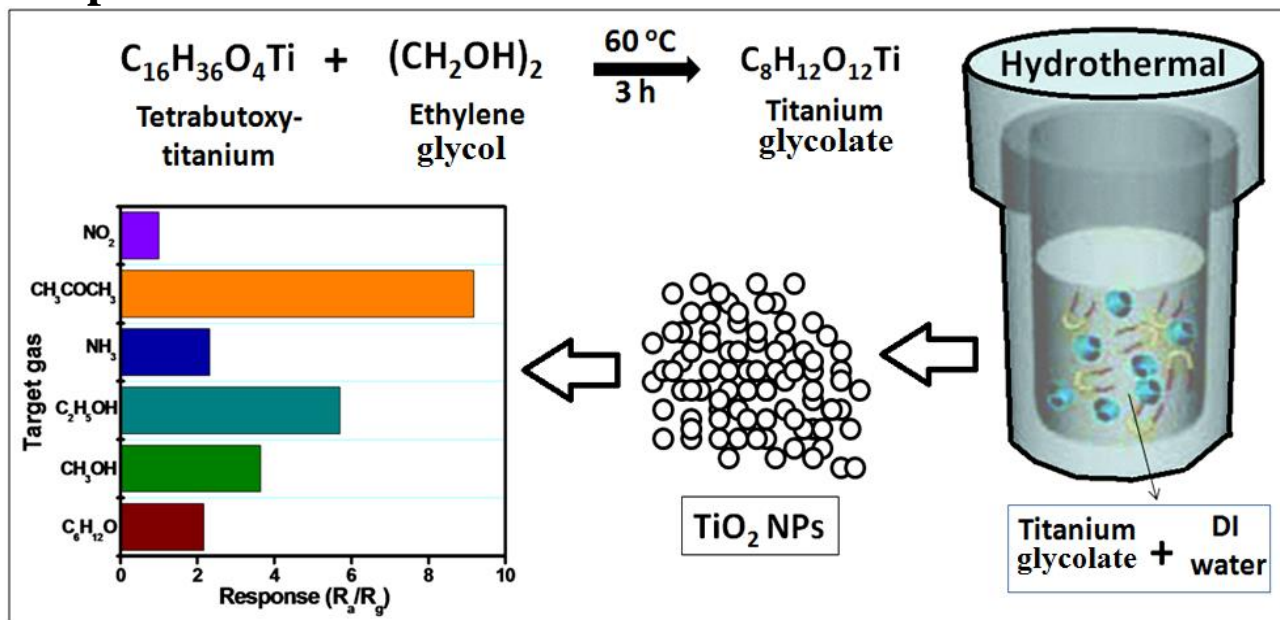
<sup>b</sup>Key Laboratory of Optoelectronic Devices and Systems of Ministry of Education and Guangdong Province, College of Optoelectronic Engineering, Shenzhen University, Shenzhen, 518060, PR China

<sup>c</sup>School of Physical Sciences, Solapur University, Solapur-413255, MS, India

<sup>d</sup>Technical Physics Division, Bhabha Atomic Research Centre, Trombay, Mumbai, 400085, India

<sup>e</sup>Center for Nanomaterials & Energy Devices, Swami Ramanand Teerth Marathwada University, Dnyanteerth, Vishnupuri, Nanded- 431606, India.

## Graphical abstract



Download English Version:

<https://daneshyari.com/en/article/7141950>

Download Persian Version:

<https://daneshyari.com/article/7141950>

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