## Accepted Manuscript

#### Full Length Article

In situ fabrication of the Bi<sub>2</sub>O<sub>3</sub>–V<sub>2</sub>O<sub>5</sub> hybrid embedded with graphitic carbon nitride nanosheets: Oxygen vacancies mediated enhanced visible-light–driven photocatalytic degradation of organic pollutants and hydrogen evolution

S.V. Prabhakar Vattikuti, Police Anil Kumar Reddy, Jaesool Shim, Chan Byon

PII: S0169-4332(18)30994-2

DOI: https://doi.org/10.1016/j.apsusc.2018.04.040

Reference: APSUSC 39039

To appear in: Applied Surface Science

Received Date: 10 February 2018 Revised Date: 26 March 2018 Accepted Date: 5 April 2018



Please cite this article as: S.V. Prabhakar Vattikuti, P. Anil Kumar Reddy, J. Shim, C. Byon, In situ fabrication of the Bi<sub>2</sub>O<sub>3</sub>–V<sub>2</sub>O<sub>5</sub> hybrid embedded with graphitic carbon nitride nanosheets: Oxygen vacancies mediated enhanced visible-light–driven photocatalytic degradation of organic pollutants and hydrogen evolution, *Applied Surface Science* (2018), doi: https://doi.org/10.1016/j.apsusc.2018.04.040

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**

In situ fabrication of the  $Bi_2O_3-V_2O_5$  hybrid embedded with graphitic carbon nitride nanosheets: Oxygen vacancies mediated enhanced visible-light-driven photocatalytic degradation of organic pollutants and hydrogen evolution

S.V. Prabhakar Vattikuti<sup>1</sup>\*, Police Anil Kumar Reddy<sup>2</sup>, Jaesool Shim<sup>1</sup>\* and Chan Byon<sup>2</sup>\*

<sup>1</sup>School of Mechanical Engineering, Yeungnam University, Gyeongsan 712-749, South Korea

<sup>2</sup>School of Mechanical and Nuclear Engineering, Ulsan National Institute of Science and Technology (UNIST), Ulsan 44919, Republic of Korea

## \*Corresponding author Address:

Dr. S.V. Prabhakar Vattikuti,

School of Mechanical Engineering

Yeungnam University 214-1 Dae-dong Gyeongsan-si,

Gyeongsangbuk-do (712-749, Republic of Korea)

Mobile: +82-(0)53-810-2452

Fax: +82-53-810-4627

\*Corresponding author E-mail: <u>vsvprabu@gmail.com</u> (S.V. Prabhakar Vattikuti), <u>jshim@ynu.ac.kr</u> (Jaesool Shim) and <u>cbyon@unist.ac.kr</u> (Chan Byon)

### Download English Version:

# https://daneshyari.com/en/article/7834252

Download Persian Version:

https://daneshyari.com/article/7834252

Daneshyari.com